

**LONG ISLAND WATER RESOURCES  
BULLETIN 15**

**HYDROGEOLOGIC DATA FROM THE NORTHERN  
PART OF THE TOWN OF BROOKHAVEN,  
SUFFOLK COUNTY, NEW YORK**



**Prepared by the  
U.S. GEOLOGICAL SURVEY**

**in cooperation with the  
SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
SUFFOLK COUNTY WATER AUTHORITY**

**Published by  
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**By  
Edward J. Koszalka**

**U.S. Department of the Interior  
Geological Survey**

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Long Island Water Resources Bulletin 15

ERRATA

- Page 57.--Analysis of S23185 on 77-04-05 for magnesium should be .7.  
Page 65.--Analysis of S34301 on 76-08-13 for potassium should be .3.  
Page 72.--Analysis of S43117 on 74-02-26 for sulfate should be 9.1.  
Plate 2.--Unlabeled data point should read 37.2.

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## CONVERSION FACTORS AND ABBREVIATIONS

<u>Multiply inch-pound units</u>	<u>by</u>	<u>To obtain SI<sup>1</sup>/ units</u>
foot (ft)	.348	meter (m)
square mile (mi <sup>2</sup> )	2.590	square kilometer (km <sup>2</sup> )
million gallons per day (Mgal/d)	.04381	cubic meter per second (m <sup>3</sup> /s)
--	--	milligrams per liter (mg/L)
--	--	micromhos per centimeter ( $\mu$ mho/cm)

---

<sup>1</sup>/ International System of Units

**HYDROGEOLOGIC DATA FROM THE NORTHERN  
PART OF THE TOWN OF BROOKHAVEN,  
SUFFOLK COUNTY, NEW YORK**

By

Edward J. Koszalka

**ABSTRACT**

Water levels in observation wells in the northern part of the Town of Brookhaven indicate that the water table currently has a maximum altitude of 75 feet above National Geodetic Vertical Datum (NGVD), and the potentiometric surface of the Magothy aquifer has a maximum altitude of 65 feet. Water-quality analyses of ground water and surface water indicate that, with few exceptions, water is acceptable for drinking and for most other uses. Total withdrawal for public supply in 1977 was about 23.11 million gallons per day. The upper glacial aquifer contributed 15.04 million gallons per day, and the Magothy aquifer 8.07 million gallons per day. Withdrawals by private firms accounted for less than 5 percent of the total.

## INTRODUCTION

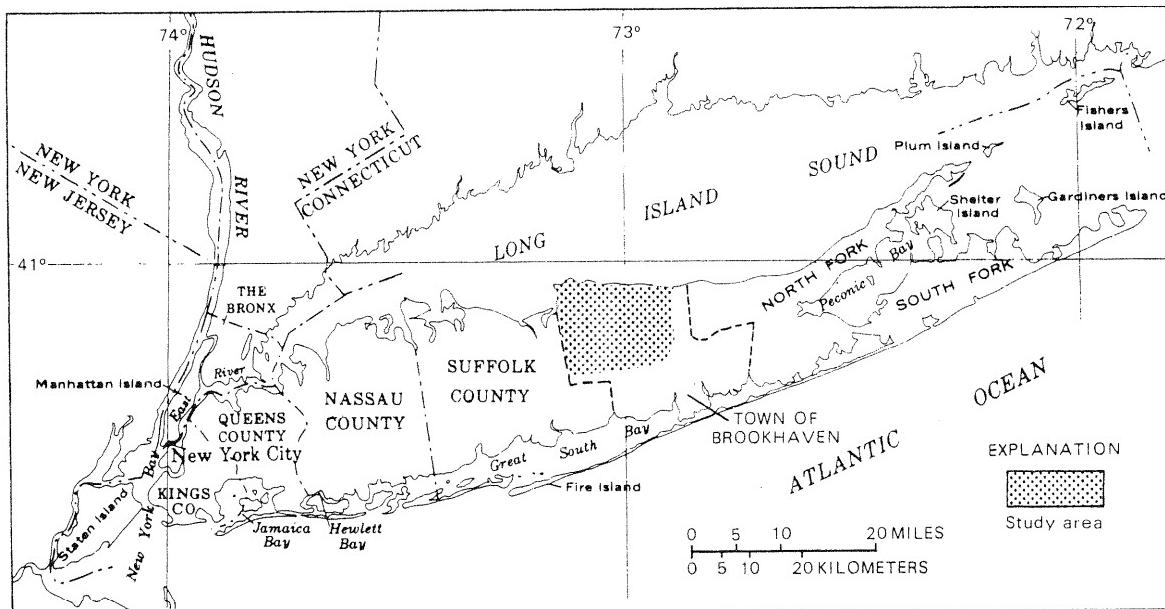
All water for public supply, irrigation, industrial and commercial use in the northern part of the Town of Brookhaven is obtained from ground water. To facilitate the ground-water management of this natural resource, the ground-water environment and its hydrologic and chemical characteristics must be understood.

### Purpose and Scope

The purpose of this report is to (a) present data on the occurrence and movement of fresh surface water and ground water, and (b) provide data on the chemical quality of water in the two major aquifers in the area studied. To help clarify the relationships among hydrologic units, the geology of the area is briefly described.

### Location and Extent of Area

The northern part of the Town of Brookhaven is in north-central Suffolk County between  $72^{\circ}53'$  and  $73^{\circ}10'$ W long. and  $40^{\circ}48'$  and  $40^{\circ}49'$ N lat. (fig. 1). The area is bounded on the north by the Long Island Sound, on the east by Woodville Road, North Country Road, Ridge Road, Middle Country Road, Smith Road, and Longwood Road, on the south by Long Island Expressway, and on the west by the Brookhaven-Smithtown Town boundary. Plate 1 shows the area in detail. The northern part of the Town of Brookhaven contains approximately 130 mi<sup>2</sup>.



Base from U.S. Geological Survey  
State base map, 1:500,000, 1974

Figure 1.--Major geographic features of Long Island and location of area of investigation.

## Previous Investigations

The geology of the northern part of the Town of Brookhaven was first studied by Fuller (1914); his report describes the Pleistocene units and includes a surficial geologic map. Description of the subsurface geology was presented in Suter, deLaguna, and Perlmutter (1949). Other investigators who have written on the geology of the northern part of the Town of Brookhaven are Holzmacher, McLendon, and Murrel (1968) and Jensen and Soren (1974).

Several water-table maps of Long Island that include the study area have been published. Some of the more recent maps are by Kimmel (1971) for 1970; Koszalka and Koch (1974) and Jensen and Soren (1974) for 1971; Vaupel and others (1977) for 1972; Koszalka (1975) for 1974; and Nakao and Erlichman (1978) for 1975.

Some other investigations concerning the hydrology of the area are Cohen, Franke, and McClymonds (1969) for 1962-66 drought; Koch and Koszalka (1973) and Vaupel and others (1977) for 1972 potentiometric surface of the Magothy aquifer; and Prince (1976) for the 1975 potentiometric surface of the Magothy aquifer. Some of the streamflow and water-quality data contained in this report have been published by the U.S. Geological Survey (1978, 1979).

## Methods of Investigation

Ground-water levels were measured in March and April 1979 at 50 observation wells screened in the upper glacial aquifer throughout the study area and were compiled to make a water-table map; water levels from 16 wells screened in the Magothy aquifer were compiled to make a potentiometric-surface map of the Magothy aquifer. The water levels are given in table 1; the measurement-site locations are shown in plate 1. Plate 2 is the water-table contour map; plate 3 is the potentiometric surface map of the Magothy aquifer.

Periodic discharge measurements were made at five streams selected by the author during 1977 and 1978; these values are given in table 2.

Both ground water and surface water were analyzed for chemical content (tables 3-7). Analyses of water from 27 observation wells screened in the upper glacial aquifer are presented in tables 3 and 4; analyses of water from 34 public-supply wells screened in the upper glacial aquifer and 27 public-supply wells screened in the Magothy aquifer are given in tables 5 and 6. Analyses of water from the seven stream sites are given in table 7. Analyses of water from the observation wells were made from 1976-78; those from public-supply wells were made from 1972-78, and those from the stream sites were made from 1977-78. The analyses were made by the U.S. Geological Survey in Albany, N.Y. and Atlanta, Ga., by the Suffolk County Department of Environmental Control (now part of the Suffolk County Department of Health Services), and the Suffolk County Water Authority.

Total public-supply pumpage by the Suffolk County Water Authority from 1971-77 was compiled by well field and aquifer (table 8); public-supply pumpage by private water companies from 1971-77 is given in table 9.

## GEOHYDROLOGY

### Geologic Setting

The northern part of the Town of Brookhaven is underlain by unconsolidated deposits that rest unconformably on the Precambrian(?) basement complex (fig. 2). The formations strike northeast and dip to the southeast. Depth to basement increases southward from approximately 700 to 1,400 feet below sea level. The basement is overlain by the Raritan Formation, which consists of the Lloyd Sand Member and an overlying clay member. The Lloyd Sand Member is approximately 200 ft thick, and the clay member is approximately 150 ft thick. The Magothy Formation and Matawan Group, undifferentiated (Magothy aquifer in report area) overlie the Raritan Formation; its thickness ranges from 0 at the north shore to more than 900 ft at the southern part of the area. These three units are of Late Cretaceous age and, except for the Magothy Formation and Matawan Group, are continuous throughout the study area.

The Pleistocene deposits of the area consist of several glacial, periglacial, and interglacial units including a marine clay and the Smithtown clay. The surficial geologic units consist of outwash, morainal, and Holocene deposits; the Holocene material includes shore, beach, and salt-marsh deposits and, at certain locations, artificial fill.

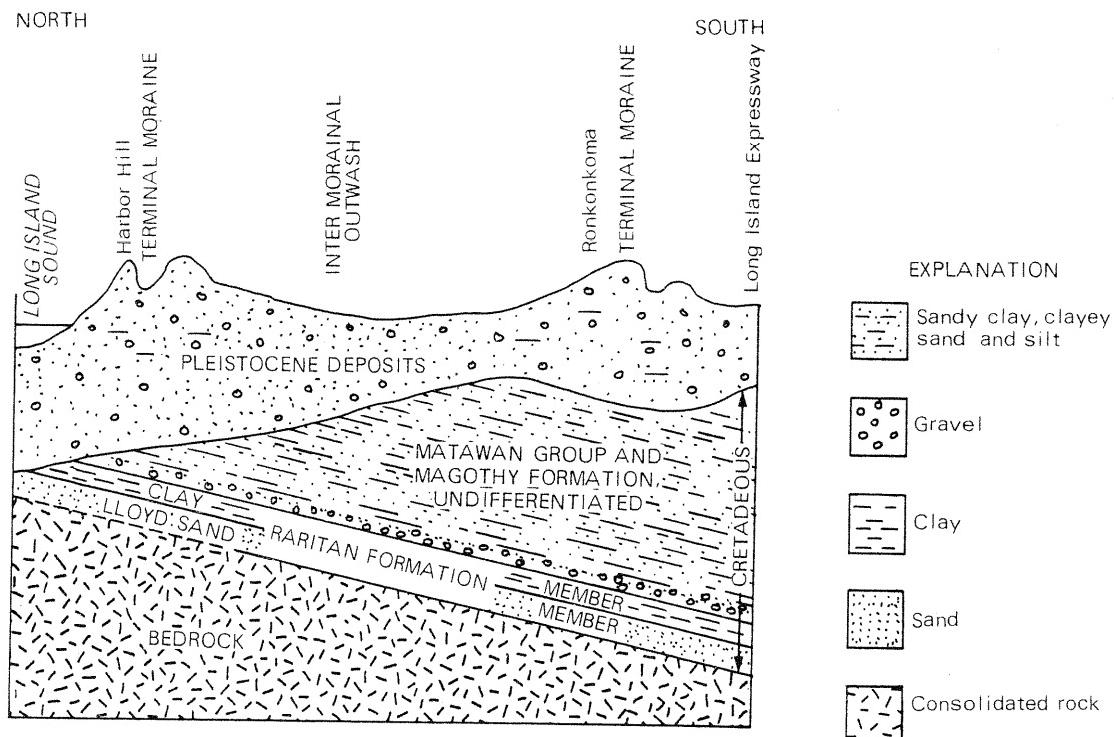


Figure 2.--Generalized geologic cross section of the northern part of the Town of Brookhaven.

## **Hydrology**

### *Ground-Water Levels*

Long Island's major ground-water divide intersects the study area (pl. 2); north of this divide ground water flows into the Long Island Sound, and south of the divide, ground water flows into the Great South Bay (fig. 1). This divide is not stationary but moves north or south as the configuration of the water table changes. These changes may occur seasonally, during periods of excess recharge by precipitation, or during periods of drought. The seasonal fluctuation in water levels at the divide is usually less than 5 feet.

Water-level measurements were made in 50 observation wells during March and April 1979 (table 1) and were used to prepare a water-table map of the northern part of the Town of Brookhaven (pl. 1). The water table has a maximum altitude of 75 feet in the central part of the study area and decreases to zero along the north shore. Along the southern boundary of the area studied, the water table ranges in altitude from 53 feet in the west to about 33 feet in the east (pl. 2). The lower altitude of the water table in the east is attributed to ground-water discharge into the Carmans River basin. A potentiometric-surface map of the Magothy aquifer was prepared from water-level measurements collected from 16 wells in April 1979 (pl. 3). The potentiometric surface is a surface that represents the static head, which is defined by the levels to which water would rise in a tightly cased well screened at a specific depth. The potentiometric surface of the Magothy aquifer has a maximum altitude of about 65 feet above NGVD (National Geodetic Vertical Datum) in the central part of the study area and decreases to less than 10 feet along the north shore. To the east, where data are lacking, the contours are speculative.

### *Surface Water*

All streams within the area studied except Carmans River flow northward into the Long Island Sound; Carmans River flows south into the Great South Bay. Several natural lakes and ponds are in the area also; many are kettle-holes that intersect the water table, and some are perched. In addition, several ponds have been created behind small dams on some of the tributaries.

Stream-discharge measurements were made periodically at seven sites in the area during 1977 and 1978. The locations of these sites are shown in plate 1; the discharge measurements are given in table 2. The U.S. Geological Survey maintains a continuous gaging station on Carmans River south of the Long Island Expressway; daily discharge rates for that site from 1942 to the present are available from the Survey's Long Island office.

### *Water Quality*

The chemical quality of water determines the purposes for which the water may be used--such as drinking, agriculture, or industry. The chemical composition of the water is determined by the type and solubility of material

with which the water comes in contact, the duration of contact, the chemical quality of precipitation and the air through which it falls, the water temperature and pressure, and the presence of surface-derived substances such as domestic wastes, fertilizers, and industrial discharges.

The water in the northern part of the Town of Brookhaven is for the most part acceptable for drinking and other uses. However, some constituents, for example iron, chloride, and nitrate nitrogen occur locally in unacceptable concentrations in terms of drinking-water standards. Chemical analyses from 27 observation wells screened in the upper glacial aquifer are presented in tables 3 and 4. Table 4 contains analyses from wells screened in the upper glacial aquifer that are downgradient from or within 200 feet of small secondary sewage-treatment plants; thus, these values may not reflect the general ground-water quality. Chemical analyses of water from 34 public-supply wells screened in the upper glacial aquifer and 27 public-supply wells screened in the Magothy aquifer are presented in tables 5 and 6; chemical analyses of water from the seven stream sites are given in table 7. The following paragraphs explain the significance of some of the constituents represented in tables 3 to 7.

Specific conductance.--Specific conductance of water is a measure of the water's ability to conduct electricity. Conductance, measured in micromhos per centimeter ( $\mu\text{mho}/\text{cm}$ ) at  $25^\circ\text{C}$ , increases when the concentration and degree of ionization of minerals in solution increases.

Specific conductance of water samples from the observation wells screened in the upper glacial aquifer ranged from 40 to 600  $\mu\text{mho}/\text{cm}$ , and samples from observation wells near sewage-treatment plants ranged from 105 to 1,300  $\mu\text{mho}/\text{cm}$ . Water from public-supply wells ranged from 0 to 250  $\mu\text{mho}/\text{cm}$  in the upper glacial aquifer and from 20 to 230  $\mu\text{mho}/\text{cm}$  in the Magothy aquifer. Specific conductance of stream samples ranged from 90 to 235  $\mu\text{mho}/\text{cm}$ .

Dissolved solids.--The dissolved-solids concentration, measured in milligrams per liter (mg/L), represents the total amount of dissolved mineral matter in the water sample. The concentration of dissolved-solids is proportional to the specific conductance of the sampled water and is generally 0.6 the conductivity value.

Dissolved-solids concentrations of water samples from observation wells ranged from 30 to 270 mg/L and, from observation wells near sewage-treatment plants, they ranged from 85 to 682 mg/L. Dissolved-solids concentrations of stream samples ranged from 46 to 140 mg/L; no analyses were made for dissolved-solids concentration in public-supply wells.

pH.--The pH (potential of hydrogen) value is the degree of acidity or alkalinity of water, expressed as the value of the negative exponent of the hydrogen-ion activity. Thus, the higher the negative exponent, the lower the H concentration. The range is from 0 to 14. A pH of 7 is neutral; values below 7 are progressively more acidic, and those above 7 are progressively more alkaline.

The pH of water samples from the observation wells screened in the upper glacial aquifer ranged from 4.2 to 6.6, and samples from observation wells

near sewage-treatment plants ranged from 5.1 to 6.9. Public-supply wells ranged from 5.4 to 7.5 in the upper glacial aquifer and 5.3 to 7.4 in the Magothy aquifer. The pH of stream samples ranged from 5.8 to 7.2.

Nitrate-Nitrogen (N).--High concentrations of nitrate, among other chemicals, in the water can cause cyanosis (blue-baby disease) in infants. Cyanosis is caused by methemoglobinemia, or imperfect oxidation within the blood. The hemoglobin reacts with nitrite, which is a reduction product of nitrate by microflora in the intestinal systems of some infants. The U.S. Environmental Protection Agency's "National Interim Primary Drinking Water Regulations" (1977, p. 59570) and the U.S. Public Health Service (1962, p. 7) has established a maximum safety level of 10 mg/L for nitrate as nitrogen.

The nitrate concentrations in water from observation wells ranged from 0.00 to 16 mg/L; water from observation wells near sewage-treatment plants ranged from 0.00 to 20 mg/L. Public-supply wells ranged from <0.01 to 11 mg/L in the upper glacial aquifer and <0.01 to 4.4 mg/L in the Magothy aquifer. Nitrate concentrations of stream samples ranged from 0.06 to 3.4 mg/L.

Hardness.--Hardness is a measure of the amount of calcium and magnesium in water. It is reported by the U.S. Geological Survey as CaCO<sub>3</sub> in mg/L and is classified as follows:

soft.....	0 to 60 mg/L
moderately hard.....	61 to 120 mg/L
hard.....	121 to 180 mg/L
very hard.....	above 180 mg/L

Hardness of water samples from observation wells ranged from 8 to 140 mg/L and, from observation wells near sewage-treatment plants, it ranged from 13 to 82 mg/L. Samples from public-supply wells ranged from 6 to 88 mg/L in the upper glacial aquifer and from 0 to 83 mg/L in the Magothy aquifer. Hardness of water in stream samples ranged from 16 to 85 mg/L.

#### *Ground-Water Pumpage*

The major estimated withdrawals for public-water supply in the northern part of the Town of Brookhaven from 1971 to 1977 are given in tables 8 and 9. Table 8 gives the total pumpage by the Suffolk County Water Authority by well field and aquifer; table 9 gives the total pumpage from the upper glacial aquifer by private water companies. In 1977, 15.04 million gallons per day was withdrawn from the upper glacial aquifer, and 8.07 million gallons per day was withdrawn from the Magothy aquifer. Comparison of total pumpage by private companies with pumpage by Suffolk County Water Authority shows that the eight private companies account for less than 5 percent of the total public-supply pumpage in the area studied. The locations of public-supply wells and well fields (table 8) are shown in plate 1.

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Table 1.--Water levels in wells in the northern part of Town of Brookhaven, March-April 1979

[All depths are in feet above NGVD]

Local Identifier <sup>1</sup>	Latitude	Longitude <sup>2</sup>	Owner <sup>3</sup>	Period of record		Highest water level recorded Date	Lowest water level recorded Date	Present water level Date
				Level	Date			
S 3513	40°51'16"	073°03'18"	N.Y.S. Dept. Highways	1942-1979	4-10-79	69.67	3-1-67	56.06
S 3737	40°51'03"	073°04'55"	Town of Brookhaven	1943-1979	4-10-79	62.41	4-27-67	50.05
S 3870	40°51'45"	072°59'25"	Town of Brookhaven	1954-1979 <sup>4/</sup>	4-17-79	61.51	10-26-76	49.54
S 3871	40°50'10"	072°58'09"	Town of Brookhaven	1954-1979 <sup>5/</sup>	4-17-79	52.84	4-10-69	44.75
S 3955	40°53'43"	073°05'50"	Town of Brookhaven	1944-1979 <sup>6/</sup>	4-10-79	58.81	3-31-67	48.01
S 6410	40°51'17"	072°54'08"	Town of Brookhaven	1948-1979 <sup>6/</sup>	4-17-79	51.03	3-11-70	42.28
S 6411	40°56'50"	072°54'18"	N.Y.S. Dept. Transportation	1948-1979	10-24-58	34.01	12-28-66	25.15
S 6413	40°53'08"	072°55'31"	N.Y.S. Dept. Transportation	1954-1979	4-12-79	54.16	4-12-79	42.40
S 16612	40°53'36"	073°07'30"	S.C.W.A.	1968-1978	10-5-78	46.97	3-20-72	37.11
S 40849	40°55'10"	073°06'34"	Town of Brookhaven	1971-1979	8-3-73	48.89	9-30-77	40.41
S 40850	40°55'55"	073°06'01"	Town of Brookhaven	1971-1979	4-10-79	29.65	9-21-71	24.26
S 40851	40°57'44"	072°57'19"	Town of Brookhaven	1971-1979	4-17-79	19.16	10-26-77	17.12
S 40852	40°56'55"	072°56'42"	Town of Brookhaven	1971-1979 <sup>7/</sup>	2-6-79	35.88	9-30-77	30.57
S 40853	40°56'08"	072°56'24"	Town of Brookhaven	1971-1979	1-5-79	43.00	3-20-72	35.11
S 40854	40°54'42"	072°56'30"	Town of Brookhaven	1971-1979	4-17-79	50.98	3-20-72	44.13
S 41050	40°52'23"	073°02'13"	S.C.W.A.	1972-1979	4-10-79	75.18	7-11-72	60.29
S 46548	40°57'17"	072°59'17"	Town of Brookhaven	1972-1979	4-11-79	11.81	4-4-73	9.06
S 46549	40°56'25"	073°02'20"	Town of Brookhaven	1972-1979	4-11-79	27.51	10-20-72	23.81
S 47225	40°52'18"	072°56'11"	S.C.D.H.S.	1974-1979	3-6-79	48.94	10-27-77	45.20
S 47675	40°51'11"	073°06'58"	S.C.D.H.S.	1974-1979	3-15-79	61.57	10-5-77	55.27
S 47698	40°53'07"	073°06'09"	S.C.D.H.S.	1974-1979	3-12-79	59.90	12-5-77	55.02
S 47718	40°49'41"	073°06'54"	S.C.D.H.S.	1974-1979	3-12-79	58.85	9-28-77	51.53
S 47745	40°54'17"	072°57'27"	S.C.D.H.S.	1974-1979	3-12-79	56.98	10-27-77	50.50
S 47756	40°49'22"	072°59'50"	S.C.D.H.S.	1974-1979	3-8-79	52.78	10-26-77	47.13
S 47757	40°50'08"	073°02'55"	S.C.D.H.S.	1974-1979	3-8-79	57.43	9-28-77	52.46
S 47758	40°48'52"	073°05'04"	S.C.D.H.S.	1974-1979	3-12-79	53.37	9-30-77	47.48
S 47945	40°56'48"	072°55'51"	S.C.D.H.S.	1974-1979	10-4-78	35.51	10-29-77	32.40
S 47943	40°56'04"	073°06'43"	S.C.D.H.S.	1974-1979	5-22-74	27.45	9-30-77	24.45

Local Identifier	Latitude	Longitude	Owner <sup>3</sup>	Period of record	Highest water level recorded		Lowest water level recorded		Present water level Date
					Date	Level	Date	Level	
S 47974	405532	0730251	S.C.D.H.S.	1974-1979	2-13-74	50.63	9-28-78	48.06	3-15-79
S 47975	405050	0725953	S.C.D.H.S.	1974-1979	3-15-79	59.32	12-6-77	54.38	3-15-79
S 47976	405605	0725915	S.C.D.H.S.	1974-1979	3-12-79	37.21	9-28-77	32.95	3-12-79
S 48651	405136	0730416	S.C.D.H.S.	1974-1979	3-13-79	62.74	10-26-77	56.84	3-12-79
S 48958	405259	0730047	S.C.D.H.S.	1974-1979	3-15-79	65.16	10-26-77	59.20	3-15-79
S 50502	404937	0730639	Town of Brookhaven	1973-1979	12-14-73	59.57	10-25-77	54.02	4-10-79
S 57486	405448	0730021	Town of Brookhaven	1976-1979	4-17-79	57.60	10-26-77	52.32	4-17-79
S 57490	405425	0730822	Town of Brookhaven	1976-1979	4-11-79	38.18	10-25-77	34.65	4-11-79
S 62404	405033	0735600	Town of Brookhaven	1977-1979	4-12-79	36.33	10-25-77	34.87	4-12-79
S 62405	405740	0730645	Town of Brookhaven	1977-1979	4-10-79	4.16	10-26-77	3.62	4-10-79
S 62406	405700	0730803	Town of Brookhaven	1977-1979	4-10-79	5.16	10-26-77	3.65	4-10-79
S 62407	409604	0730800	Town of Brookhaven	1977-1979	4-10-79	16.68	10-25-77	12.58	4-10-79
S 65855	40551	0725351	Town of Brookhaven	1978-1979	4-17-79	54.93	10-18-78	51.16	4-17-79
S 65856	405425	0725456	Town of Brookhaven	1978-1979	4-17-79	55.08	10-18-78	51.51	4-17-79
S 65857	405430	0725547	Town of Brookhaven	1978-1979	4-17-79	54.65	10-5-78	51.50	4-17-79
S 65858	405025	0725735	Town of Brookhaven	1978-1979	4-17-79	50.14	10-5-78	48.48	4-17-79
S 65859	405454	0725804	Town of Brookhaven	1978-1979	4-17-79	54.93	10-5-78	52.14	4-17-79
S 65860	405053	0725928	Town of Brookhaven	1978-1979	4-17-79	55.51	10-5-78	53.06	4-17-79
S 65861	505548	0725935	Town of Brookhaven	1979	4-17-79	48.00	10-5-78	46.84	4-17-79
S 66506	405245	0725737	S.C.D.H.S.	1979	4-17-79	57.72	1-30-79	54.31	4-17-79
S 66507	405345	0725911	S.C.D.H.S.	1979	4-17-79	61.83	1-30-79	57.42	4-17-79
S 66510	405441	0730219	S.C.D.H.S.	1979	4-17-79	59.31	1-30-79	56.86	4-17-79

<sup>1</sup>S, Suffolk County

<sup>2</sup>Should be read 40°45'16", 073°03'18"

<sup>5</sup>except 1969

<sup>6</sup>except 1963-69 and 1974

<sup>3</sup>S.C.W.A., Suffolk County Water Authority  
S.C.D.H.S., Suffolk County Department of Health Services

<sup>4</sup>except 1969

<sup>7</sup>except 1974

Table 2.--Discharge of selected streams in the northern part of the Town of Brookhaven, 1977-78

(Site locations are shown in plate 1.)

Station No.	Station name	Location	Date	Measurements Discharge (ft <sup>3</sup> /s)
01304051	Stony Brook at Stony Brook.	Lat 40°54'53", long 73°08'52", Suffolk County, 100 ft down- stream from Harbor Road, at Stony Brook.	3-15-77 8-23-77 11- 1-77 3- 1-78 4-18-78 9-27-78	2.5 3.0 2.6 2.7 2.9 2.0
01304060	Unnamed Tributary to Conscience Bay at Setauket.	Lat 40°56'49", long 73°07'01", Suffolk County, 30 ft down- stream from pond below Old Field Road, at Setauket.	3-15-77 8-23-77 10-25-77 3- 1-78 3-20-78 4-18-78 9-27-78	1.5 1.0 1.5 2.6 2.6 2.3 1.5
01304065	Unnamed Tributary to Setauket Harbor at East Setauket.	Lat 40°56'35", long 73°06'08", Suffolk County, at culvert on State Highway 25A, at East Setauket.	3-15-77 8-23-77 11- 1-77 3- 1-78 4-18-78 9-27-78	.22 .26 .26 .32 .46 .20
01304070	Unnamed Tributary to Port Jefferson Harbor at Port Jefferson.	Lat 40°56'41", long 73°04'18", Suffolk County, at culvert on Barnum Ave., at Port Jefferson.	4-19-77 8-23-77 11- 1-77 3-19-78 4-18-78 9-27-78	.97 .51 1.1 .65 .29 1.5
01304990	Carmans River at Middle Island.	Lat 40°51'47", long 72°56'35", Suffolk County, at culvert on East Bartlett Road, 0.75 mile south of Middle Island, and 3.0 miles upstream from gaging station at Yaphank.	4-12-77 7-27-77 9-29-77 10-31-77 4-17-78 5- 3-78	2.5 .36 .56 .28 3.8 3.4
01304995	Carmans River near Yaphank.	Lat 40°50'29", long 72°56'13", Suffolk County, 25 ft down- stream from Mill Road, 1.2 miles northwest of Yaphank, and 1.9 miles upstream from gaging station at Yaphank.	4-12-77 7-27-77 9-29-77 10-31-77 4-17-78 5- 3-78	11 7.1 7.1 7.5 13.8 16.9
01304998	Carmans River, below Lower Lake, at Yaphank.	Lat 40°50'07", long 72°55'01", Suffolk County, at culvert on Yaphank Ave., at Yaphank, and 0.7 mile upstream from gaging station at Yaphank.	4-12-77 7-27-77 9-29-77 10-31-77 4-17-78 5- 3-78	23 9.8 8.5 13 22.6 29.5

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the Town of Brookhaven, 1977-78

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	
									NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)
S 1811	40 49 57	073 07 34	01	77-10-26 78-04-14	320 275	6.6 6.1	8 10	2 7	0.0 .00	.04 .02
				78-10-16	350	5.6	24	5	--	--
S 40851	40 57 44	072 57 19	01	78-04-27 78-10-17	185 160	5.4 5.4	108 140	14 18	.01 .00	3.3 .00
				78-04-20 78-10-16	250 255	5.6 4.2	68 --	14 18	.02 .00	1.6 8.7
S 41050	40 52 23	073 02 13	01	77-10-26 78-04-21 78-10-17	290 165 183	6.1 5.4 5.0	28 140 224	18 18 11	.04 .00 .27	13 16 2.7
				78-04-20	255	4.2	--			
47225	40 52 18	072 56 11	01	77-10-27 78-04-21 78-10-17	200 165 183	5.8 5.4 5.0	20 140 224	7 18 11	0.0 .00 .00	2.4 2.5 2.7
				78-04-21	165	5.4	--			
47675	40 51 11	073 06 58	01	76-05-05 77-06-30	520 600	5.8 5.8	-- --	18 29	-- --	-- --
				77-10-21 77-10-25 78-04-20	170 167 140	6.0 6.3 6.1	-- 30 39	35 30 25	-- .01 .00	-- 98 1.1
				77-10-21 77-10-25 78-04-20	170 167 140	6.0 6.3 6.1	-- 30 39	35 30 25	-- .01 .00	-- 98 1.1
				78-10-19	145	5.9	87	35	.00	.43
S 47698	40 53 07	073 06 09	01	77-10-25 78-04-18 78-10-19	40 50 40	6.4 6.4 6.6	5.7 5.1 5.2	7 7 11	0.0 .00 .00	-- -- .48
				78-04-14 78-10-16	192 205	5.8 6.3	84 43	27 44	.01 .01	.60 .51
S 47718	40 49 41	073 06 54	01	77-10-26 78-04-14 78-10-17	200 120 87	6.4 5.0 5.1	26 48 38	34 2 2	0.0 .01 .01	.01 1.8 .07
				78-04-20	120	5.0	48	2	.01	.01
S 47745	40 54 17	072 57 27	01	77-10-27 78-04-17	150 87	5.3 5.1	32 38	3 2	0.0 .01	2.6 1.8
				78-10-17	87	5.1	38	2	.01	.07
S 47749	40 53 38	072 53 04	01	76-05-11 77-07-13 77-10-29 78-04-21 78-10-17	480 375 275 375 500	5.0 4.9 5.5 4.9 5.2	-- -- 111 363 141	10 10 18 15 11	0.0 .00 .00 .00 .00	-- -- 5.2 6.0

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the Town of Brookhaven, 1977-78 (Continued)

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS Mg)	SODIUM, DIS- SOLVED (MG/L AS Na)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
S 1811	77-10-26	27	4.7	3.6	17	1.3	63	7	51000	610
	78-04-14	30	5.4	3.9	19	1.1	60	5.5	37000	560
	78-10-16	30	5.4	4.0	20	1.0	67	2.0	40000	610
S 40851	78-04-27	32	6.0	4.1	12	1.1	16	9.5	720	40
	78-10-17	37	7.0	4.8	14	1.3	20	9.4	300	0
S 41050	77-10-26	77	17	8.5	28	2.6	22	23	1400	30
	78-04-20	74	17	7.7	23	2.0	23	19	300	20
	78-10-16	67	14	7.8	22	3.0	21	20	1000	0
S 47225	77-10-27	90	29	4.2	4.8	4.1	6.9	72	6400	50
	78-04-21	66	22	2.6	3.7	3.7	5.3	46	390	20
	78-10-17	62	20	3.0	4.3	3.7	7.1	43	1100	0
S 47675	76-05-05	--	--	--	--	58	4.2	130	5.5	500
	77-06-30	--	--	--	--	71	5.0	145	13	400
	77-10-21	--	--	--	--	24	8	23	8.9	200
S 47698	77-10-25	28	7.9	2.0	22	2.1	21	9.1	8700	50
	78-04-20	36	10	2.6	8.1	1.7	10	11	900	70
S 47718	78-10-19	19	5.7	1.2	22	2.0	16	12	1300	80
	77-10-25	8	1.6	1.0	3.8	7	5.2	3.0	1300	10
	78-04-18	9	1.9	1.0	3.8	5	5.4	3.7	3400	10
S 47745	78-10-19	9	2.0	1.0	4.0	6	5.3	2.7	780	10
	77-10-26	39	10	3.5	21	3.8	24	16	3900	300
	78-04-14	51	14	4.0	17	3.6	30	14	1300	250
S 47749	78-10-16	42	11	3.5	20	2.9	22	12	3800	290
	77-10-27	24	6.5	1.7	12	2.0	11	21	200	60
	78-04-20	21	5.6	1.5	8.5	1.5	11	14	1300	30
S 47749	78-05-11	--	--	--	--	49	2.7	81	41	300
	77-07-13	--	--	--	--	34	4.0	52	50	300
	77-10-29	69	21	4.0	24	1.7	24	60	3600	750
	78-04-21	76	23	4.6	40	2.0	62	41	1200	780
	78-10-17	81	25	4.4	55	2.7	99	39	5400	990

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the Town of Brookhaven, 1977-78 (Continued)

LOCAL IDENT- I- FIER	SOLIDS, SUM OF CONSTI- TUENTS, DATE OF SAMPLE	AGENCY COL- LECTING SAMPLE (CODE NUMBER)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TIME
S 1811	77-10-26 78-04-14 78-10-16	147 148 157	1028 1028 1028	1028 1028 1028
S 40851	78-04-27 78-10-17	84 80	1028 1028	1028 1028
S 41050	77-10-26 78-04-20 78-10-16	126 185 151	1028 1028 1028	1615 1145 1530
S 47225	77-10-27 78-04-21 78-10-17	134 114 98	1028 1028 1028	— — 1245
S 47675	76-05-05 77-06-30 77-10-21 77-10-25 78-04-20	— — — 87 69	9821 9821 9821 1028 1028	1530 1440 1400 0900 1100
S 47698	78-10-19	86	1028	0830
S 47718	77-10-25 78-04-18 78-10-19	30 31 34	1028 1028 1028	1000 1615 0930
S 47745	77-10-26 78-04-14 78-10-16	104 105 106	1028 — 1028	— 1315 1030
S 47749	76-05-11 77-07-13 77-10-29 78-04-21 78-10-17	— — 171 216 270	9821 9821 1028 1028 1028	1500 1530 1545 1100 1400

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the town of Brookhaven, 1977-78 (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE	PH (MICRO- MHDS)	CARBON DIOXIDE (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N)
S 47756	40 49 22	072 59 50	01	76-04-29	86	5.5	46	7	.01	.16
				77-10-26	70	5.8	28	9	.00	.22
				78-04-20	190	5.6	44	9	.00	.24
				78-10-17	75	6.0	18	9	.00	.17
S 47757	40 50 08	073 02 55	01	77-10-27	90	6.4	13	17	.00	--
				78-04-18	150	6.4	18	23	.01	.99
				78-10-17	215	6.0	43	22	.00	2.0
S 47758	40 48 52	073 05 04	01	77-10-26	440	5.4	40	8	.00	--
				78-04-20	350	5.4	108	14	.01	.99
				78-10-17	260	5.9	30	12	.00	1.8
S 47945	40 56 48	072 55 51	01	77-07-13	117	5.6	--	7	--	--
				77-10-29	88	6.1	14	9	.00	.82
				78-04-18	95	5.8	30	10	.00	.18
				78-10-16	60	5.8	33	11	.00	.35
S 47973	40 56 04	073 06 43	01	77-10-25	340	6.4	17	21	.00	--
				78-04-18	310	5.7	70	18	.00	1.7
				78-10-19	310	6.3	21	21	.00	5.5
S 47975	40 50 50	072 59 53	01	77-10-27	--	6.6	14	28	.00	--
				78-04-18	--	6.5	26	42	.00	.47
				78-10-16	150	6.5	27	43	.00	1.7
S 47976	40 56 05	072 59 15	01	76-04-29	195	5.9	52	21	.01	4.0
				77-10-29	175	5.9	52	21	.01	1.7
				78-04-18	220	5.8	53	17	.00	5.2
				78-10-16	170	5.7	83	21	.00	4.2
S 48651	40 51 36	073 04 16	01	77-10-26	325	5.9	62	25	.01	3.6
				78-04-18	310	5.9	64	26	.01	1.7
				78-10-17	320	6.0	38	20	.00	5.9
S 48958	40 52 59	073 01 03	01	76-04-29	180	6.0	26	13	.01	5.9
				77-10-26	118	6.1	24	16	.00	--
				78-04-17	180	6.2	20	16	.01	2.7
				78-10-16	125	6.4	11	14	.00	2.6

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the Town of Brookhaven, 1977-78 (Continued)

LOCAL- IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM DIS- SOLVED (MG/L AS CA)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE- DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL, RECOV- ERABLE (UG/L AS Mn)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS Mn)
S 47754	76-04-29	20	4.0	2.5	6.8	5	13	4.7	3500	20
	77-10-26	13	2.2	1.8	11	1.0	15	7.8	4500	40
	78-04-20	24	5.0	2.7	22	1.3	37	13	8100	20
S 47757	78-10-17	15	2.7	2.0	9.0	.9	13	5.8	5600	40
	77-10-27	38	9.3	--	5.0	.9	12	8.9	360	3
S 47758	76-04-18	38	9.0	3.7	5.4	.9	12	11	710	50
	78-10-17	85	21	7.9	10	1.0	46	8.8	910	60
	77-10-26	60	19	3.1	54	3.2	99	28	1200	30
S 47945	78-04-20	55	16	3.7	36	2.2	76	22	1500	50
	78-10-17	46	14	2.7	34	1.8	64	17	2800	60
	77-07-13	--	--	--	6.1	.8	9.3	15	500	30
S 47973	77-10-29	23	5.8	2.0	5.4	1.3	7.6	13	3000	120
	78-04-18	17	4.4	1.5	4.8	1.0	7.2	12	2400	140
	78-10-16	18	4.4	1.7	4.9	1.4	6.0	10	1800	100
S 47975	77-10-25	140	40	10	11	1.9	11	110	1200	10
	78-04-18	110	32	7.6	11	1.5	12	87	380	10
	78-10-19	140	39	10	10	1.4	13	100	180	10
S 47976	77-10-27	41	10	3.9	4.4	1.0	5.8	9.8	1100	10
	78-04-18	51	12	5.2	5.2	1.0	8.6	11	3500	30
	78-10-16	70	17	6.6	5.3	.9	9.6	14	1500	20
S 48651	76-04-29	52	12	5.3	13	.9	16	16	2200	20
	77-10-29	48	11	5.1	14	1.4	17	15	1900	40
	78-04-18	53	12	5.5	14	1.3	21	17	670	20
S 48958	78-10-16	54	13	5.3	14	1.1	19	23	2200	60
	77-10-26	66	19	4.4	35	2.8	54	29	1300	40
	78-04-18	49	14	3.5	35	2.3	52	20	1400	30
S 48958	78-10-17	69	21	4.1	37	2.6	59	21	660	50
	76-04-29	44	11	4.5	12	.9	17	8.6	950	10
	77-10-26	35	8.0	3.6	9.0	1.2	7.3	17	2900	60
	78-04-17	48	11	5.1	10	1.3	11	24	1100	10
	78-10-16	30	7.1	2.9	13	1.0	9.0	20	540	20

Table 3.--Chemical analyses of water from observation wells in the northern part  
of the Town of Brookhaven, 1977-78 (Continued)

LOCAL IDENT- I- FIER	DATE OF SAMPLE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L)	AGENCY COL- LECTING SAMPLE (CODE NUMBER)	AGENCY ANA- LYZING SAMPLE (CODE NUMBER)	TIME
S 47756	76-04-29	44	---	---	1200
	77-10-26	52	1028	1028	--
	78-04-20	96	1028	1028	0945
S 47757	78-10-17	48	1028	1028	1300
	77-10-27	67	1028	---	0900
	78-04-18	74	1028	1028	1245
S 47758	78-10-17	131	1028	1028	1000
	77-10-26	224	1028	1028	1100
	78-04-20	177	1028	1028	0900
S 47945	78-10-17	157	1028	1028	1200
	77-07-13	---	9821	9821	1300
	77-10-29	55	1028	1028	1230
S 47973	78-04-18	48	1028	1028	0930
	78-10-16	45	1028	1028	0945
	77-10-25	215	1028	1028	1115
S 47975	78-04-18	181	1028	1028	--
	78-10-19	222	1028	1028	1145
	77-10-27	68	1028	1028	1030
S 47976	78-04-18	84	1028	1028	1145
	78-10-16	103	1028	1028	1615
	76-04-29	108	---	---	1450
S 48651	77-10-26	186	1028	1028	--
	78-04-18	160	1028	1028	--
	78-10-17	193	1028	1028	1045
S 48958	76-04-29	99	---	---	1340
	77-10-26	76	1028	1028	1715
	78-04-17	96	1028	1028	1315
	78-10-16	85	1028	1028	1345

Table 4.--Chemical analyses of water from observation wells near sewage-treatment plants  
in the northern part of the Town of Brookhaven, 1976-78

LOCAL IDENT- IFI- ER	STATION NUMBER	DATE OF SAMPLE	SPE- CIFIC CON- DUCT- ANCE (MICRO- MHOS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM DIS- SOLVED (MG/L AS CA)
S 45346	405341073003201	78-04-17 78-10-18	290 235	5.2 5.5	172 61	.01 .00	11 13	60 45
S 45724	405253072541901	77-10-18 78-04-21	1300 >1000	5.9 6.6	-- 48	.01 .03	4.2 .97	-- 35
S 45838	405213072580001	78-04-17 78-10-16	160 240	6.7 6.6	16 29	.00 .00	.51 .73	19 13
S 47100	405140073005701	77-10-17 78-04-17 78-10-16	315 260 275	5.6 6.1 6.0	-- 50 94	.00 .00 .01	5.7 7.2 7.1	-- 65 82
S 50971	405456073020801	77-10-11 78-04-17 78-10-18	245 250 275	5.1 5.4 5.8	-- 147 101	.00 .00 .00	13 3.2 20	-- 53 46
S 51626	405229072592501	77-05-28 78-04-17	-- 460	-- 6.9	-- 34	.01 .01	14 .00	-- 62
S 51700	404954072595201	78-04-17	440	6.8	56	.01	.18	47
S 57691	405231073011301	77-09-09 78-04-21	250 105	5.7 6.1	-- 60	.00 .01	1.6 1.1	-- 30
S 59259	405243073070401	78-04-21 78-10-19	370 375	6.3 6.3	76 80	.00 .14	.67 .00	27 20
								8.0 6.3

Table 4.--Chemical analyses of water from observation wells near sewage-treatment plants  
in the northern part of the Town of Brookhaven, 1976-78 (Continued)

LOCAL IDENT- I- FIER	DATE OF SAMPLE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	CHLO- RIDE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE)
S 45346	78-04-17 78-10-18	4.3 3.1	26 26	7.4 5.6	22 24	1.9 2.2	620 1100
S 45724	77-10-18 78-04-21	-- 3.0	208 240	12 10	260 290	31 43	300 390
S 45838	78-04-17 78-10-16	1.2 .8	15 46	4.1 2.7	6.5 31	11 11	360 1200
S 47100	77-10-17 78-04-17 78-10-16	-- 6.8 8.3	29 22 25	2.0 1.9 1.9	34 22 28	23 21 16	100 750 8400
S 50971	77-10-11 78-04-17 78-10-18	-- 3.7 3.2	26 20 36	5.4 4.1 4.5	22 15 21	2.2 27 5.1	100 240 190
S 51626	77-05-28 78-04-17	-- 4.8	-- 65	-- 8.6	58 33	-- 43	6000 5000
S 51700	78-04-17	3.6	50	59	36	28	210
S 57691	77-09-09 78-04-21	-- 2.3	15 13	2.5 2.1	25 13	16 20	2500 2200
S 59259	78-04-21 78-10-19	1.6 1.1	60 65	11 10	39 45	34 29	100 160

Table 4.--Chemical analyses of water from observation wells near sewage-treatment plants  
in the northern part of the Town of Brookhaven, 1976-78 (Continued)

LOCAL IDENT- IFIER	DATE OF SAMPLE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L)	AGENCY COL- LECTING SAMPLE (CODE NUMBER)	AGENCY ANALYZING SAMPLE (CODE NUMBER)
S 45346	78-04-17 78-10-18	950 680	166 172	1028 1028	1028 1028
S 45724	77-10-18 78-04-21	1700 670	-- 682	9821 1028	9821 1028
S 45838	78-04-17 78-10-16	1900 990	85 142	1028 1028	1028 1028
S 47100	77-10-17 78-04-17 78-10-16	30 80 320	-- 176 194	9821 1028 1028	9821 1028 1028
S 50971	77-10-11 78-04-17 78-10-18	50 40 40	-- 123 205	9621 1028 1028	9821 1028 1028
S 51626	77-05-28 78-04-17	1150 110	-- 278	9821 1028	9821 1028
S 51700	78-04-17	40	317	1028	1028
S 57691	77-09-09 78-04-21	8500 7300	-- 99	9821 1028	9821 1028
S 59259	78-04-21 78-10-19	2600 2000	224 229	1028 1028	1028 1028

Table 5.--Chemical analyses of water from public-supply wells screened in the upper  
glacial aquifer in the northern part of the Town of Brookhaven

LOCAL IDENT- I- FIER	LAT- I- TUDE	LNG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC COND- DUCT- ANCE (MICRO- MHO)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	
S 4372	40 56 46	073 04 16	01	72-12-02	61	6.6	5.2	13	00	.32
				73-07-20	60	6.4	8.9	14	00	<.10
				73-11-28	58	6.5	7.5	15	00	.24
				74-04-17	64	6.5	7.0	14	00	.50
				74-12-11	54	6.8	3.5	14	00	.36
				75-12-26	58	6. /	5.7	18	00	.40
				76-04-17	58	6.7	5.1	16	02	.93
				76-08-05	56	6.9	3.2	16	<.01	.74
				76-12-20	59	6.4	E10	16	<.01	.89
				77-04-07	56	7.0	2.5	16	<.01	.89
				77-09-25	57	6.4	E11	18	<.01	.97
				77-09-26	59	6.4	E10	16	<.01	.83
				78-02-16	53	6.3	E13	16	<.01	.97
				78-06-05	58	6.7	4.8	15	<.01	1.0
S 8439	40 56 46	073 04 16	02	72-12-05	55	6.1	E20	16	00	.40
				73-07-19	56	6.4	9.5	15	00	.26
				73-11-29	60	6.7	6.3	20	00	<.10
				74-04-16	86	6.8	6.0	24	00	<.10
				74-11-30	73	6.8	4.3	17	00	.40
				75-12-26	58	6.7	5.1	16	00	.56
				76-04-13	59	6.8	4.3	17	<.01	.81
				76-08-05	57	7.1	2.3	18	<.01	.73
				76-12-19	55	6.7	5.1	16	<.01	.90
				77-04-02	51	6.9	3.0	15	<.01	.80
				77-07-19	55	6.2	E15	15	<.01	.85
				77-09-19	56	6.3	E11	14	<.01	.95
				78-01-26	51	6.4	E12	20	<.01	.43
S 13620	40 49 37	073 06 03	01	72-10-17	142	5.7	--	13	00	4.6
				73-08-01	148	5.8	--	18	00	4.4
				73-12-06	148	6.2	E20	20	00	3.8
				74-04-18	146	6.5	E10	20	00	3.7
				74-06-19	120	6.0	E30	19	00	.56
				74-11-06	158	6.0	E38	24	<.01	3.4
				75-01-23	143	6.1	E32	26	02	3.2

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS Ca)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	IRON, TOTAL RECOV- ERABLE (UG/L AS Fe)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
S 4372	72-12-02	40	4.0	1.0	4.7	6	6.0	4.0	<10
	73-07-20	20	3.8	1.9	4.7	4	7.0	2.7	<10
	73-11-28	32	3.4	1.2	4.2	5	6.0	2.7	<10
	74-04-17	18	4.0	1.3	5.6	4	9.5	1.4	<50
	74-12-11	22	5.4	1.2	4.5	4	7.0	2.4	<50
	75-12-26	16	6.4	1.4	4.2	5	6.5	3.6	<10
	76-04-17	17	4.4	1.2	4.2	4	5.0	1.0	<10
	76-08-05	16	4.0	1.2	4.0	4	3.5	1.8	<10
	76-12-20	23	3.9	1.2	4.7	4	3.5	4.3	<10
	77-04-07	33	4.0	1.3	4.1	4	6.0	1.9	<10
	77-06-25	20	4.3	1.4	3.9	4	3.0	2.1	70
	77-09-26	15	4.0	1.2	4.3	4	4.5	1.7	20
	78-02-16	27	4.3	1.3	4.3	4	4.5	2.0	<10
	78-06-06	26	4.5	1.5	4.3	4	3.0	2.2	<10
S B439	72-12-05	24	4.5	1.0	4.0	7	7.0	3.5	<10
	73-07-19	20	4.6	1.7	4.2	4	5.5	2.7	<10
	73-11-29	26	5.9	1.8	3.5	4	4.5	3.4	<10
	74-04-16	27	8.2	1.2	5.0	5	8.0	2.6	<10
	74-11-30	20	6.0	1.9	6.5	7	8.0	2.2	<10
	75-12-26	16	6.0	1.2	4.3	4	5.5	5.6	70
	76-04-13	17	4.6	1.1	4.6	4	5.0	.9	<10
	76-08-05	27	4.6	1.2	4.2	4	4.0	1.8	<10
	76-12-19	29	4.2	1.3	4.4	4	4.0	1.5	<10
	77-04-02	23	3.6	1.1	4.0	4	5.0	1.7	40
	77-07-19	22	5.7	1.2	4.0	5	3.5	1.7	<10
	77-09-19	24	5.1	1.3	4.0	5	4.5	1.7	<10
	78-01-26	20	4.9	1.2	4.7	4	2.0	2.0	<10
S 13620	72-10-17	44	9.2	3.2	10	1.8	12	10	<10
	73-08-01	36	9.4	3.3	10	1.7	13	6.5	<10
	73-12-06	40	8.9	3.0	11	1.2	12	7.7	110
	74-04-18	36	8.5	3.6	11	1.5	13	6.4	120
	74-06-19	36	8.0	6	9.4	1.2	12	6.0	<20
	74-11-06	38	9.0	4.3	11	1.3	15	6.4	90
	75-01-23	45	11	4.0	12	1.0	14	9.0	210
									<50
									230

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)		NITRO- GEN, NITRITE TOTAL (MG/L AS N)
									SPECIFIC DUCT- ANCE (MICRO- MHOS)	DATE OF SAMPLE	PH (UNITS)
S 13620	40 49 37	073 06 03	01	76-02-08	170	6.2	E31	31	00	2.8	<.01
				76-05-14	160	6.1	E34	27	<.01	4.5	
				76-10-15	164	6.2	28	28	<.01	6.1	
				77-02-15	250	6.5	E13	26	<.01	4.8	
				77-06-14	149	6.0	E41	26	<.01	4.9	
				77-11-30	163	6.0	E38	24	<.01	5.0	
				78-03-28	149	5.9	--	34	<.01	4.6	
S 15962	40 56 07	073 07 24	01	72-12-06	250	5.6	--	15	00	5.9	
				73-07-19	215	5.7	--	21	00	4.0	
				73-11-28	168	5.9	--	18	00	3.2	
				74-08-10	240	6.0	E23	20	00	6.2	
				74-11-27	230	5.9	--	17	00	5.8	
				75-04-04	245	5.9	--	18	00	5.0	
				75-12-18	200	5.9	--	23	00	5.0	
				76-04-13	215	6.0	E36	23	<.01	5.7	
				76-08-06	225	6.1	E30	24	03	6.4	
				76-12-19	212	6.0	E34	22	<.01	5.7	
				77-04-02	210	6.5	E11	22	<.01	5.6	
				77-06-28	190	5.7	--	20	<.01	4.9	
				77-09-27	155	6.3	E18	22	<.01	2.8	
				78-01-26	190	5.8	--	27	<.01	3.5	
S 16309	40 52 30	073 03 06	01	75-01-22	50	7.3	1.6	20	00	<.10	
				75-05-12	58	7.2	2.0	20	00	<.10	
				75-11-02	56	7.0	3.5	22	00	<.10	
				76-02-02	59	6.8	5.5	22	00	<.10	
				76-05-12	60	7.1	2.5	20	<.01	.12	
				76-10-07	44	6.8	6.0	24	<.01	.09	
				77-02-01	62	7.0	3.8	24	<.01	.14	
				77-08-14	55	6.7	7.6	24	<.01	.03	
				77-11-17	57	6.9	4.2	24	<.01	.14	
				78-03-19	54	7.1	3.0	24	<.01	.14	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS CA)			SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)			POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)			CHLO- RIDE, DIS- SOLVED (MG/L AS CL)			SULFATE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )			IRON, TOTAL RECOV- ERABLE (UG/L AS FE)		
			CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)								
S 13620	76-02-08	4.6	1.3	4.7	1.2	1.3	1.7	1.2	1.2	7.9	50	160								
	76-05-14	4.6	1.1	4.0	1.2	1.4	1.2	1.3	1.6	8.2	<10	380								
	76-10-15	6.6	1.3	4.7	1.3	1.3	1.6	1.5	1.2	8.4	100	350								
	77-02-15	4.5	1.0	4.2	1.2	1.5	1.2	1.4	1.2	8.3	30	360								
	77-06-14	4.3	1.1	4.3	1.1	1.4	1.2	1.4	1.2	8.3	<10	350								
	77-11-30	5.1	1.0	3.9	1.2	1.3	1.3	1.3	1.3	8.7	<10	310								
	78-03-28	4.8	1.2	4.7	1.1	1.1	1.3	1.3	1.3	9.4	100	70								
S 15962	72-12-06	88	1.7	7.5	1.5	2.7	2.1	2.7	2.2	32	<10	<10								
	73-07-19	6.6	1.3	5.0	1.5	1.4	2.2	2.7	2.7	<10	<10	<10								
	73-11-28	7.2	9.5	4.5	12	1.0	1.7	2.0	2.0	<20	<20	<10								
	74-08-10	7.7	1.3	8.1	15	1.4	2.2	2.4	2.4	<20	<20	<10								
	74-11-27	7.1	1.3	7.6	16	1.6	2.3	2.7	2.7	<20	<20	<10								
	75-04-04	7.0	1.3	6.2	16	1.5	2.0	2.2	2.2	<50	<50	<10								
	75-12-18	6.1	1.7	7.1	17	1.5	2.0	3.5	3.5	80	30	30								
	76-04-13	6.4	1.5	7.3	16	1.4	2.0	2.9	2.9	<10	20	20								
	76-08-06	6.5	1.4	7.3	15	1.4	1.9	2.8	2.8	30	<10	<10								
	76-12-19	6.3	1.3	7.0	15	1.4	1.8	2.9	2.9	<10	20	20								
	77-04-02	7.5	1.3	6.8	15	1.4	1.9	2.8	2.8	30	20	20								
	77-06-28	2.7	1.2	5.1	14	1.3	1.6	2.6	2.6	<10	<10	<10								
	77-09-27	4.0	9.1	3.8	10	9	11	15	15	<10	<10	<10								
	78-01-26	6.2	1.4	5.2	13	1.0	1.4	2.4	2.4	<10	<10	<10								
S 16309	75-01-22	2.2	4.7	1.6	3.5	2	4.0	2.8	2.8	<50	<10	<10								
	75-05-12	1.7	5.0	1.4	3.5	4	1.5	2.2	2.2	50	<10	<10								
	75-11-02	2.2	6.0	1.8	3.6	4	2.5	7.2	7.2	130	10	10								
	76-02-02	2.2	5.3	1.7	3.6	4	2.5	3.6	3.6	40	<10	<10								
	76-05-12	1.8	4.7	1.5	3.7	5	3.5	3.0	3.0	<10	<10	<10								
	76-10-07	2.4	4.8	1.7	3.7	5	2.5	2.5	2.5	20	<10	<10								
	77-02-01	2.5	4.9	1.6	3.7	4	2.0	2.6	2.6	<10	<10	<10								
	77-08-14	3.2	4.9	1.7	3.6	4	2.0	2.6	2.6	30	<10	<10								
	77-11-17	2.1	4.7	1.7	3.6	5	2.0	2.7	2.7	40	20	20								
	78-03-19	2.4	5.1	1.7	3.4	4	2.0	1.8	1.8	30	<10	<10								

Table 5.—Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LNG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC CON- DUCT- ANCE (MICRO- MHOES)	PH	(UNITS) AS CO <sub>2</sub> )	CARBON DIOXIDE AS C <sub>ACO<sub>3</sub></sub> )	ALKALI- NITRITY (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
S 17037	40 49 52	072 58 36	01	72-11-21	175	5.8	—	11	.00	6.0
				73-05-25	130	5.4	—	13	.00	6.4
				73-09-16	160	5.9	—	11	.00	5.1
				74-01-29	165	5.4	—	15	.00	5.1
				74-05-21	160	5.9	—	15	.00	4.6
				74-10-29	185	5.9	—	14	.00	5.3
				75-01-27	140	6.0	E22	14	.00	5.4
				76-01-27	158	6.1	E21	17	.00	3.9
				76-06-27	190	6.1	E20	16	<.01	7.4
				76-11-15	108	6.1	21	17	<.01	6.1
				77-02-24	108	5.9	—	16	<.01	2.9
				77-08-15	170	5.8	—	15	<.01	6.4
				77-12-11	170	5.9	—	14	<.01	6.4
				78-04-04	152	6.1	E23	18	<.01	5.8
S 17630	40 49 33	073 06 03	01	72-10-15	137	6.0	E31	20	.00	4.9
				73-08-01	140	5.9	—	18	.00	4.1
				73-12-06	120	6.4	E11	18	.00	2.8
				74-04-18	135	6.2	E18	18	.00	3.0
				74-05-19	128	6.0	E27	17	.00	3.5
				74-11-06	150	6.0	E28	18	.00	3.4
				75-01-23	124	6.1	E29	23	.00	2.4
				75-11-10	147	6.0	E41	26	.00	3.3
				76-02-08	165	6.1	E40	32	.00	3.1
				76-05-20	126	6.2	E25	25	<.01	3.5
				76-11-10	150	6.8	6.0	24	<.01	4.8
				77-02-15	165	6.3	E20	26	<.01	4.9
				77-06-14	141	5.9	—	27	<.01	4.4
				77-11-30	169	6.2	E22	22	<.01	5.1
				78-03-28	165	6.0	E44	28	<.01	5.2
S 19408	40 49 53	072 58 36	01	72-12-13	135	5.8	—	15	.00	4.6
				73-07-09	106	5.8	—	16	.00	2.9
				73-10-01	168	5.7	—	16	.00	4.4
				74-01-29	116	5.7	—	17	.00	2.9

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM			SODIUM			POTAS- SIUM			CHLOR- IDE,			SULFATE			IRON,			MANGA- NESE,			
			CALCIUM TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(MG/L AS CACO <sub>3</sub> )	TOTAL	RECOV- ERABLE	(UG/L AS MN)	
S 17037	72-11-21	40	9.0	2.9	1.1	1.9	1.2	1.3	<10	<10	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	73-05-25	34	8.2	3.4	1.1	2.4	1.1	1.1	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	73-09-16	42	8.0	3.5	1.1	2.0	1.2	1.2	<10	<10	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	74-01-29	50	10	3.2	1.2	1.8	1.4	1.4	<10	<10	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	74-05-21	45	9.8	4.0	1.2	2.0	1.5	1.5	<50	<50	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	74-10-29	46	10	3.8	1.3	1.7	1.3	1.3	<20	<20	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	75-01-27	46	7.0	4.5	1.3	1.5	1.3	1.2	<50	<50	80	80	80	80	80	80	80	80	80	80	80	80	80	80
	75-01-27	43	10	3.7	1.2	1.5	1.2	1.5	<40	<40	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	76-06-27	50	13	4.9	1.2	2.2	1.5	1.7	<10	<10	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	76-11-15	44	10	3.4	1.1	2.0	1.1	1.5	<20	<20	130	130	130	130	130	130	130	130	130	130	130	130	130	130
	77-02-24	25	6.2	2.2	9.0	1.4	8.5	11	210	210	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	77-08-15	51	11	4.0	1.3	2.2	1.1	1.6	30	30	130	130	130	130	130	130	130	130	130	130	130	130	130	130
	77-12-11	50	10	3.5	1.3	2.2	1.3	1.5	<10	<10	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	78-04-04	38	9.7	3.0	1.2	2.0	1.1	1.4	100	100	120	120	120	120	120	120	120	120	120	120	120	120	120	120
S 17630	72-10-15	50	8.6	2.9	1.0	1.3	9.5	6.0	<10	<10	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	73-08-01	36	8.8	3.2	1.0	1.5	1.3	6.0	<60	<60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	73-12-06	34	7.4	2.6	1.0	1.0	1.2	10	100	100	50	50	50	50	50	50	50	50	50	50	50	50	50	50
	74-04-18	35	6.7	3.2	1.0	1.1	1.3	6.2	<20	<20	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	74-05-19	37	7.7	3.3	9.6	1.2	1.2	12	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	74-11-06	38	8.0	3.5	1.0	1.2	1.4	6.2	<20	<20	40	40	40	40	40	40	40	40	40	40	40	40	40	40
	75-01-23	40	9.0	3.1	1.1	1.9	1.3	6.2	80	80	160	160	160	160	160	160	160	160	160	160	160	160	160	160
	75-11-10	41	10	4.8	1.1	1.2	1.4	9.0	<50	<50	70	70	70	70	70	70	70	70	70	70	70	70	70	70
	76-02-08	48	16	4.8	1.2	1.4	1.5	10	100	100	460	460	460	460	460	460	460	460	460	460	460	460	460	460
	76-05-20	35	12	3.8	1.0	1.2	1.4	7.1	60	60	350	350	350	350	350	350	350	350	350	350	350	350	350	350
	76-11-10	40	10	4.2	1.1	1.2	1.4	8.3	<10	<10	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	77-02-15	43	10	4.4	1.1	1.5	1.2	9.0	30	30	100	100	100	100	100	100	100	100	100	100	100	100	100	100
	77-06-14	39	8.6	3.6	1.0	1.2	1.1	7.2	<10	<10	60	60	60	60	60	60	60	60	60	60	60	60	60	60
	77-11-30	51	10	4.0	1.3	1.4	1.5	9.9	<10	<10	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	78-03-28	48	12	5.0	1.4	1.6	1.6	10	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
S 19403	72-12-13	78	9.5	3.6	1.1	2.3	12	12	<10	<10	30	30	30	30	30	30	30	30	30	30	30	30	30	30
	73-07-09	30	5.5	3.0	0.5	1.4	9.5	9.0	<10	<10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	73-10-01	42	8.5	3.5	1.1	1.8	12	9.0	<10	<10	20	20	20	20	20	20	20	20	20	20	20	20	20	20
	74-01-29	40	7.2	2.6	0.8	4	8.0	9	<10	<10	20	20	20	20	20	20	20	20	20	20	20	20	20	20

Table 5.--Chemical analyses of water from public-supply wells screened in the upper  
glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LNG- I- TUE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC COND-	PH	CARBON DIOXIDE DIS- OLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
					UNITS					
S 19408	40 49 53	072 58 36	01	74-08-04	116	6.1	E17	14	.01	3.3
				74-10-29	118	6.1	E21	17	.00	2.5
				75-01-27	64	6.7	5.1	16	.00	.48
				75-10-27	96	6.3	13	17	.00	1.9
				76-01-27	108	6.4	E12	20	.00	1.9
				76-06-24	97	6.6	8.8	22	<.01	2.1
				76-11-16	84	7.0	3.8	24	<.01	1.1
				77-02-22	61	6.3	E19	24	<.01	.93
				77-08-15	132	5.9	--	18	<.01	4.0
				77-12-18	97	6.3	E16	20	<.01	2.1
				78-04-03	92	6.3	E18	22	<.01	1.7
S 20591	40 52 56	073 04 56	01	72-12-27	150	6.0	E23	15	.00	6.6
				73-05-29	172	6.2	E10	10	.00	8.9
				73-09-16	210	5.7	--	10	.00	10
				74-03-13	205	5.8	--	10	.00	9.9
				74-04-18	35	6.4	4.4	7	.00	<.10
				74-08-08	200	6.2	E11	11	.00	9.2
				74-08-10	32	6.1	6.3	5	.00	<.10
				74-10-15	236	6.0	E12	8	.00	7.1
				74-11-28	33	6.5	4.0	8	.00	<.10
				75-01-27	177	6.2	E16	16	.00	8.9
				75-04-09	35	6.6	3.6	11	.00	<.10
				75-11-16	23	6.1	8.8	7	.00	<.10
				76-04-14	34	6.4	6.3	10	<.01	.02
				76-08-07	33	6.2	9.0	9	<.01	.06
				76-12-27	39	5.9	--	11	<.01	.07
				77-12-06	230	5.9	--	12	<.01	11
S 22547	40 51 55	073 04 52	02	74-10-27	134	6.5	5.5	11	.01	3.5
				75-01-22	109	6.4	E12	19	.00	.77
				75-05-12	102	6.0	14	9	.00	.64
				75-11-03	126	6.2	E16	17	.00	3.1
				76-02-02	78	6.6	6.4	16	.00	.96
				76-05-12	90	6.2	E15	15	<.01	1.8
				76-10-18	160	6.6	7.2	18	<.01	4.3

LOCAL IDENT- I- FIER	DATE OF SAMPLE	MAGNE- SICUM			POTAS- SIUM,			CHLO- RIDE,			IRON,		
		HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CACO <sub>3</sub> )	SODIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS K)	SULFATE, DIS- SOLVED (MG/L AS CL)	TOTAL RECOV- ERABLE (UG/L AS MN)	TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE,			
S 19408	74-08-04	36	7.0	3.7	9.1	1.2	10	9.1	<20	30			
	74-10-29	39	6.0	3.1	9.2	1.1	8.5	16	<20	50			
	75-01-27	30	4.0	2.0	4.7	.4	6.0	7.2	<50	<10			
	75-10-27	29	7.7	3.0	7.1	.9	7.5	11	<50	40			
	76-01-27	30	7.5	2.8	7.4	.8	7.0	11	50	40			
	76-06-24	26	6.8	2.5	6.0	.8	6.5	8.2	<10	30			
	76-11-16	28	6.3	2.5	5.6	.5	3.5	6.8	<10	20			
	77-02-22	30	6.8	2.8	5.0	.5	3.5	6.5	20	<10			
	77-08-15	35	9.0	3.5	9.4	1.5	9.5	12	30	70			
	77-12-18	32	8.2	2.7	7.4	1.0	8.0	12	30	60			
	78-04-03	28	6.9	2.6	6.0	.8	7.0	10	<10	40			
S 20591	72-12-27	54	8.5	3.3	12	2.0	13	10	<10	<10			
	73-05-29	54	9.4	4.3	15	2.0	15	10	<10	<10			
	73-09-16	56	9.0	5.0	15	2.0	17	12	<10	<10			
	74-03-13	56	11	5.7	16	1.6	19	10	<10	<10			
	74-04-18	8	1.5	.7	2.8	.4	5.5	--	<50	<10			
	74-08-08	60	13	6.1	16	1.8	21	10	<20	50			
	74-08-10	6	1.5	.7	2.9	.3	4.5	--	<20	<10			
	74-10-15	51	11	5.3	13	1.8	20	11	<20	30			
	74-11-28	10	1.3	.7	2.8	.3	4.5	--	<20	<10			
	75-01-27	52	12	6.0	15	1.2	20	11	<50	<10			
	75-04-09	15	5.0	.5	2.5	.3	4.0	2	<20	<10			
	75-11-16	7	2.0	.4	2.5	.2	3.0	2.2	<50	<10			
	76-04-14	9	3.2	.7	2.9	.4	3.5	1.0	120	<10			
	76-08-07	9	1.7	.7	2.9	.3	3.0	1.9	20	<10			
	76-12-27	9	1.8	.7	3.0	.3	1.5	2.1	<10	<10			
	77-12-06	54	12	5.3	18	2.2	17	16	<10	40			
S 22547	74-10-27	35	7.5	2.6	9.0	1.0	9.0	--	50	<10			
	75-01-22	32	9.5	2.5	6.0	.8	17	5.2	<50	<10			
	75-05-12	31	6.3	1.8	7.5	1.1	14	8.2	<20	<10			
	75-11-03	33	9.0	3.2	10	1.2	11	11	<50	30			
	76-02-02	19	5.6	1.7	6.4	.6	8.5	9.8	30	50			
	76-05-12	15	4.7	1.4	9.4	1.0	7.5	9.4	30	40			
	76-10-18	45	11	3.8	13	1.3	21	8.7	40	20			

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	CON- DUCT- ANCE (MICRO- MHOES)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- NITRATE (MG/L AS N)	SPE- CIFIC COND- ITION		NITRO- GEN, NITRATE TOTAL (MG/L AS N)
									SPE- CIFIC COND- ITION	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
S 22547	40 51 55	073 04 52	02	77-02-08	144	6.0	E19	12	<.01	2.7	
				77-06-21	100	6.1	E17	14	<.01	3.0	
				77-11-29	152	6.6	8.8	22	<.01	2.0	
S 23440	40 49 42	072 59 16	01	73-05-24	132	5.8	--	18	.00	4.9	
				73-09-16	165	5.9	--	18	.00	5.0	
				74-01-22	155	5.4	--	18	.00	5.0	
				74-10-02	190	6.1	E21	17	.00	4.5	
				75-01-08	134	6.0	E30	19	.00	3.4	
S 27261	40 56 09	072 58 10	01	72-12-02	74	6.2	8.0	8	.00	1.2	
				73-11-28	84	5.9	--	7	.00	1.9	
				74-04-06	90	6.1	E12	10	.00	3.4	
				74-08-10	75	6.2	8.0	8	.00	2.7	
				74-11-27	100	6.1	E15	12	.00	3.0	
				75-04-05	114	5.9	--	12	.00	3.5	
				75-12-19	126	6.3	E14	18	.00	3.8	
				76-04-03	126	5.9	--	15	<.01	5.0	
S 29492	40 49 12	073 03 33	02	72-12-11	111	6.2	E24	15	<.01	5.3	
				77-05-25	140	5.9	--	14	<.01	5.4	
				78-03-02	162	5.9	--	13	.06	5.0	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM		SODIUM, TOTAL (MG/L AS Na)	POTAS- SIUM,		CHLO- RIDE, TOTAL (MG/L AS K)	SULFATE, TOTAL (MG/L AS SO <sub>4</sub> )	IRON, TOTAL (UG/L AS FE)	MANGA- NESE, TOTAL (UG/L AS Mn)
				RECOV- ERABLE (MG/L AS Ca)	RECOV- ERABLE (MG/L AS Ca)		RECOV- ERABLE (MG/L AS Na)	SOLVED (MG/L AS Na)	DIS- SOLVED (MG/L AS Na)			
S 22547	77-02-08	30	7.8	2.5	1.5	9	19	11	250	30		
	77-06-21	32	7.4	2.2	1.5	1.4	21	9.4	60	60		
	77-11-29	39	8.3	2.0	1.4	1.2	17	10	230	50		
	78-03-20	24	8.2	2.0	9.7	1.1	9.0	11	70	40		
S 23440	73-05-24	44	7.5	2.1	1.2	1.4	13	7.1	<10	<10		
	73-09-16	50	9.0	3.7	1.2	1.5	12	12	100	<10		
	74-01-22	40	9.2	1.7	1.2	1.7	13	10	<10	<10		
	74-10-02	31	6.0	3.9	1.3	1.5	13	11	<20	50		
	75-01-08	40	9.0	2.6	1.3	1.3	11	12	<20	50		
	75-10-22	39	10	4.4	1.4	1.6	11	16	<50	60		
	76-01-20	31	8.7	2.4	1.0	1.0	10	10	<10	40		
	76-06-22	43	9.3	4.0	1.1	1.5	11	14	<10	50		
	76-11-09	35	9.7	3.8	1.3	1.5	10	13	<10	60		
	77-02-22	39	9.5	3.6	1.3	1.5	10	13	30	70		
	77-08-15	44	9.8	4.2	1.3	1.7	12	14	<10	80		
	77-12-18	38	8.6	3.4	1.2	1.4	12	14	<10	70		
	78-04-02	38	10	3.6	1.2	1.5	11	14	40	80		
S 27261	72-12-02	46	4.0	1.4	6.2	8	7.0	6	0	<10		
	73-11-28	36	4.0	2.2	6.5	6	9.0	6.3	<10	<10		
	74-04-16	26	4.2	2.4	6.1	6	9.5	3.4	<50	<10		
	74-08-10	25	5.6	2.6	6.3	7	9.5	5.6	<20	<10		
	74-11-27	35	5.7	2.9	6.5	7	9.5	7.2	<50	<10		
	75-04-05	30	8.0	3.0	6.0	6	9.0	4.6	<50	<10		
	75-12-19	38	11	3.9	7.3	7	10	12	30	20		
	76-04-03	38	8.7	4.1	7.0	7	10	8.8	30	30		
	76-08-05	38	9.1	4.0	7.5	8	11	9.7	50	<10		
	76-12-16	44	9.4	4.5	7.6	8	12	12	20	20		
	77-04-02	46	11	4.6	7.0	8	10	12	<10	30		
	77-06-25	48	10	4.6	7.1	8	9.0	13	20	20		
	78-03-02	56	11	5.4	7.7	8	11	20	50	<10		
S 29492	72-12-11	42	10	2.6	6.5	9	7.0	17	<10	<10		

Table 5.—Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- IFI- ER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- MHGS)	PH	(UNITS) (AS CO <sub>2</sub> )	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)		
										SPE- CIFIC COND- ITION	DATE OF SAMPLE	PH (UNITS) (AS CO <sub>2</sub> )
S 29492	40 49 12	073 03 33	02	73-08-01	120	5.9	--	1.3	0.0	1.8		
				73-12-06	125	6.3	E11	1.4	0.0	2.7		
				74-04-17	150	6.3	E11	1.4	0.0	2.6		
				74-10-09	134	6.0	E22	1.4	0.0	2.6		
				75-01-23	135	6.5	B. 6	1.7	0.0	2.3		
				75-11-04	119	6.1	E20	1.7	0.0	2.3		
				75-02-04	127	6.1	E25	2.0	0.0	1.9		
				75-05-12	132	6.2	E19	1.9	< 0.1	3.1		
				76-05-23	65	6.5	6.0	1.2	< 0.1	5.2		
				76-10-25	135	6.2	20	2.0	< 0.1	3.5		
				77-02-03	135	6.3	E13	1.7	< 0.1	2.9		
				77-05-27	99	6.0	E27	1.7	< 0.1	3.6		
				77-12-11	175	7.1	4.4	3.5	< 0.1	1.7		
				78-03-26	118	6.2	E15	1.5	< 0.1	3.2		
				72-12-04	98	6.3	8.0	10	0.0	2.1		
				73-07-18	98	6.0	E15	10	0.0	1.6		
				73-11-24	107	6.3	8.0	10	0.0	1.4		
				74-04-24	104	6.3	--	11	0.0	2.0		
				74-08-20	105	6.3	5.5	7	0.0	2.2		
				74-11-27	118	6.5	5.5	11	0.0	1.5		
				75-04-10	140	6.3	8.8	11	0.0	1.6		
				75-12-24	125	6.3	E15	19	0.2	1.6		
				76-04-03	123	6.2	E18	18	< 0.1	2.7		
				76-08-06	140	6.7	4.4	14	< 0.1	3.4		
				76-12-20	144	6.8	3.5	14	< 0.1	3.3		
				77-04-02	151	6.9	2.8	14	< 0.1	4.0		
				77-06-25	144	6.3	E11	14	< 0.1	3.8		
				77-09-26	166	6.3	E11	14	< 0.1	4.1		
				78-01-31	167	6.4	7.6	12	< 0.1	4.0		
				72-11-21	79	7.4	1.3	20	< 0.10	< 1.0		
				73-08-18	65	7.3	1.9	24	< 0.10	< 1.0		
				73-10-09	78	7.2	2.2	22	< 0.10	< 1.0		
				74-02-14	63	7.0	3.5	22	< 0.10	< 1.0		
S 32325	40 53 54	073 02 12	01									

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM, SODIUM, TOTAL RECOV- ERABLE (MG/L AS MG)		POTAS- SIUM, SODIUM, TOTAL RECOV- ERABLE (MG/L AS K)		CHLOR- IDE, DIS- SOLVED (MG/L AS CL)		IRON, MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	
				TOTAL RECOV- ERABLE (MG/L AS CA)	AS NA)	TOTAL RECOV- ERABLE (MG/L AS K)	AS K)	SULFATE DISSOLVED (MG/L AS SO <sub>4</sub> )	AS FE)	TOTAL RECOV- ERABLE (UG/L AS MN)	
S 29492	73-08-01	40	9.0	3.5	6.7	.6	9.0	17	<10	<10	
	73-12-06	44	8.5	3.5	7.5	.6	8.0	18	<10	<10	
	74-04-17	42	10	4.4	7.3	.7	10	21	<50	<10	
	74-10-09	42	6.8	3	7.3	.5	8.0	15	<20	<10	
	75-01-23	33	8.5	4.1	7.1	.5	8.5	14	<50	<10	
	75-11-04	36	11	4.7	7.6	.7	10	18	<50	<10	
	76-02-04	47	10	4.4	7.7	.7	10	18	<10	<10	
	76-05-12	40	9.0	4.0	8.3	.7	8.0	15	<10	<10	
	76-06-23	18	3.9	1.6	3.9	.5	6.0	6.0	<10	<10	
	76-10-25	65	10	4.4	8.3	.7	9.0	15	30	<10	
	77-02-03	46	9.1	4.0	7.0	.6	7.0	13	20	<10	
	77-05-27	59	8.3	3.5	7.7	.7	9.5	14	<10	<10	
	77-12-11	60	14	3.8	10	.8	18	9.4	60	<10	
	78-03-26	38	9.1	3.9	7.0	.7	9.0	16	<10	<10	
S 30083	72-12-04	40	7.2	2.7	5.0	.8	8.5	11	<10	<10	
	73-07-18	32	6.7	2.2	5.2	.5	9.0	10	<10	<10	
	73-11-24	30	6.3	3.0	5.9	.5	11	11	<10	<10	
	74-04-24	34	7.7	3.6	5.5	.5	9.0	12	<20	<10	
	74-08-20	37	7.5	3.7	5.9	.6	9.5	14	<50	<10	
	74-11-27	35	8.1	3.7	5.5	.5	10	15	<20	<10	
	75-04-10	34	7.8	3.2	5.5	.3	10	12	<20	30	
	75-12-24	38	14	4.6	5.7	.5	10	20	<10	<10	
	76-04-03	45	11	4.2	5.6	.5	6.5	16	<10	<10	
	76-08-06	55	10	4.7	5.8	.6	9.0	20	30	<10	
	76-12-20	33	11	4.7	6.0	.6	8.5	22	<10	20	
	77-04-02	58	12	5.5	6.0	.6	10	23	<10	10	
	77-06-25	52	12	5.6	5.8	.6	8.5	24	50	20	
	77-09-26	57	15	5.8	6.5	.7	11	25	60	<10	
	78-01-31	64	13	6.2	6.1	.6	9.5	29	<10	<10	
S 32325	72-11-21	40	7.0	1.2	3.7	.7	3.0	2.5	<10	<10	
	73-08-18	30	5.6	1.0	3.9	.1	4.0	3.5	<10	<10	
	73-10-09	24	7.4	1.5	3.7	.7	8.0	4.5	<10	<10	
	74-02-14	28	5.4	1.0	3.6	.5	4.5	3.7	<10	<10	

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE	PH	SPECIFIC CON- CENTRATION (MICRO- MHOES)	ALKALI- LINITY (MG/L AS CO <sub>2</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
									CACO <sub>3</sub> )	
S 32325	40 53 54	073 02 12	01	74-06-30	63	6.9	4.2	21	<.10	<.10
				74-11-24	60	7.1	2.8	22	.00	.10
				75-02-24	65	7.4	1.5	24	.00	.10
				75-11-09	72	7.0	4.1	26	.00	.10
				76-02-15	65	7.1	3.0	24	.00	.10
				76-05-25	61	7.2	2.0	20	<.01	.13
				76-12-07	69	7.3	2.0	25	<.01	.40
				77-01-11	69	7.4	1.8	29	<.01	.17
				77-11-02	68	7.5	1.4	27	<.01	.11
				78-02-28	67	7.2	2.7	27	<.01	.09
S 32326	40 53 51	073 02 12	01	72-10-09	69	7.1	2.9	23	<.10	<.14
				73-06-18	53	5.9	--	5	.00	.10
				73-10-09	60	5.8	--	5	.00	.38
				74-02-14	57	5.8	--	4	.00	.28
				74-06-30	56	6.1	6.3	5	.00	.28
				74-11-01	60	6.0	7.9	5	.00	.32
				75-03-01	62	6.2	E10	10	.00	.58
				75-09-29	88	6.2	E17	17	.00	1.1
				75-11-09	60	6.0	E12	8	.03	.72
				76-02-18	62	6.1	E11	9	.00	.04
				76-05-19	62	6.1	12	10	<.01	.63
				76-09-19	63	6.2	10	10	<.01	.60
				77-01-13	72	6.3	9.6	12	<.01	.76
				77-05-02	63	6.1	E15	12	<.01	.61
				77-11-07	65	5.8	--	9	<.01	.69
				78-02-27	98	7.1	2.9	23	<.01	1.3
S 32552	40 50 39	073 03 21	02	72-10-08	140	6.5	E6	17	.00	2.1
				73-05-13	129	6.1	E26	21	.00	2.1
				73-10-11	140	6.4	E12	20	.00	2.6
				74-02-10	150	6.5	9.1	18	.00	1.3
				74-05-12	135	6.1	E21	17	.00	1.2
				74-10-08	144	6.5	9.6	19	.00	1.4
				75-01-27	120	6.6	E10	24	.00	2.5

LOCAL- IDENT- T. FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS Ca)	MAGNE- SIMUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLOR- IDE, TOTAL RECOV- ERABLE (MG/L AS Cl)	SULFATE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS Fe)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
S 32325	74-06-30	23	5.4	1.9	3.5	4	4.0	3.6	<20	<10
	74-11-24	16	6.1	1.7	3.5	4	5.5	2.8	<20	<10
	75-02-24	25	5.2	1.7	3.5	4	3.5	1.2	<20	<10
	75-11-09	28	8.4	2.2	4.0	5	4.5	6.2	50	<10
	76-02-15	25	6.0	1.9	3.9	4	2.5	5.0	40	<10
	76-05-25	18	4.5	1.6	4.4	7	3.5	3.8	20	<10
	76-12-07	25	5.4	1.9	4.2	1.6	4.0	5.0	380	10
	77-01-11	29	5.5	1.9	3.6	5	1.5	2.0	30	<10
	77-11-02	40	6.9	2.2	3.9	5	2.5	2.5	<10	<10
	78-02-28	31	6.5	2.0	3.6	5	2.5	2.6	<10	<10
S 32326	72-10-09	32	6.0	1.8	3.7	6	2.0	5.0	<10	<10
	73-06-18	14	2.3	1.0	4.7	7	6.4	<10	<10	<10
	73-10-09	18	2.0	1.2	5.0	8	7.0	8.7	<10	<10
	74-02-14	28	1.9	.8	4.7	6	6.0	6.5	<10	<10
	74-06-30	14	2.0	1.4	4.9	6	7.5	6.0	<20	<10
	74-11-01	10	2.3	1.5	5.0	6	6.0	7.2	<20	<10
	75-03-01	15	2.4	1.6	5.0	7	5.0	5.2	<20	<10
	75-09-29	20	5.6	2.3	6.4	6	7.0	3.6	<50	<10
	75-11-09	8	4.3	1.7	5.0	6	6.0	13	70	<10
	76-02-18	13	2.6	1.4	5.1	6	6.0	9.2	20	<10
	76-05-19	19	3.2	1.5	5.5	7	7.5	8.1	<10	<10
	76-09-19	15	2.9	1.4	4.9	6	5.0	7.1	80	<10
	77-01-13	16	3.2	1.5	5.3	7	7.5	7.1	200	10
	77-05-02	17	3.8	1.5	5.0	6	7.5	7.5	60	<10
	77-11-07	28	3.1	1.6	5.5	7	5.5	7.7	<10	<10
	78-02-27	42	9.4	2.7	4.5	7	5.0	10	<10	<10
S 32552	72-10-08	62	9.0	4.1	9.5	1.2	18	9.0	<10	<10
	73-06-13	42	8.9	3.5	9.0	.8	13	7.5	<10	<10
	73-10-11	33	8.2	2.9	9.2	1.1	15	8.5	<10	<10
	74-02-10	46	9.2	2.1	10	1.1	24	9.5	<10	<10
	74-06-12	42	7.0	4.0	9.5	.9	16	8.2	<50	<10
	74-10-08	48	6.8	3.3	9.0	.8	16	7.2	<20	<10
	75-01-27	44	7.0	5.2	10	.6	16	9.0	<50	<10

Table 5.—Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the town of Brookhaven (Continued)

LOCAL- IDENT- I- FIER	LAT- I- TUE	LNGN- I- TUE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC COND- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITITE AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
									NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
S 32552	40 50 30	073 03 21	02	75-11-06	136	6.2	E26	26	.00	2.6
				76-02-02	200	6.5	E13	26	.00	1.6
				76-10-12	156	6.6	10	25	<.01	2.9
				77-02-02	160	6.3	E72	23	<.01	2.6
				77-11-15	88	6.5	E14	27	<.01	.94
				78-03-18	151	6.4	E17	26	<.01	2.8
S 35494	40 51 55	073 04 52	01	72-12-27	60	6.7	7 0	22	.00	<.10
				73-08-09	59	6.4	E12	20	.00	<.10
				73-10-01	142	6.4	E16	26	.00	4.1
				74-02-11	139	6.7	9.5	30	.00	2.8
				74-06-16	59	6.7	5.7	18	.00	<.10
				74-10-27	70	6.3	E15	20	.00	<.10
				75-11-03	124	6.5	9.0	20	.00	2.7
				76-02-02	57	6.9	4.8	24	.00	<.10
				76-05-12	62	6.9	4.4	22	<.01	.08
				76-10-18	63	7.2	2.5	25	<.01	.15
				77-02-03	60	6.8	6.6	26	<.01	1.4
				77-04-21	44	6.6	8.4	21	<.01	1.3
				77-11-29	65	7.1	3.2	25	<.01	.03
				78-03-20	55	7.1	3.0	24	<.01	.12
S 35711	40 53 35	072 56 29	01	72-12-05	95	6.3	E16	21	.00	.34
				73-07-18	97	6.7	7 3	23	.00	.14
				73-11-14	102	6.8	5.5	22	.00	<.10
				74-04-08	101	7.2	2.3	23	.00	<.10
				74-11-01	95	6.8	6.3	25	.00	.14
				75-02-24	97	7.0	4.5	28	.00	<.10
				75-11-16	76	6.9	5.0	25	<.01	.24
				76-01-17	96	6.7	9.8	31	.00	<.10
				76-08-20	90	6.6	E15	40	<.01	.55
				76-12-16	95	7.2	3.0	30	<.01	.60
				77-04-13	99	6.7	9.5	30	<.01	.54
				77-06-29	82	7.0	4.1	26	<.01	.60
				77-09-19	81	6.7	7.9	25	<.01	.42

LOCAL IDENT- I- FILER	DATE OF SAMPLE	HARD- NESS (HG/L AS CACO <sub>3</sub> )	MAGNE-			POTAS-			CHLO-			IRON,			MANGA-
			CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	SULFATE DIS- SOLVED (MG/L AS FE)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	
S 32552	75-11-06 76-02-02 76-10-12 77-02-02 77-11-15	37 57 65 46 29	12 13 11 11 7.7	4.4 5.1 4.5 4.1 2.1	9.9 1.4 1.1 1.0 5.4	8 1.0 .8 .7 .7	16 31 17 17 6.0	9.0 15 8.4 8.6 4.1	<50 40 <10 30 30	<50 40 <10 30 30	10 10 10 10 30	10 10 10 10 30	10 10 10 10 30	MANGA-	
S 35494	72-12-27 73-08-09 73-10-01 74-02-11 74-06-18	38 24 44 54 22	5.5 4.7 12 14 3.7	1.5 1.3 2.5 1.5 1.7	4.2 4.0 9.0 9.0 4.3	6 5 1.2 1.1 4.0	3.5 3.5 10 9.0 4.0	5.0 3.5 7.0 8.7 2.6	<10 <10 <10 <10 <50	<10 <10 <10 <10 <50	<10 <10 <10 <10 10	<10 <10 <10 <10 10	<10 <10 <10 <10 10	<10 <10 <10 <10 10	<10 <10 <10 <10 10
	78-03-18	46	13	5.1	1.3	.8	23	10	140	<10	<10	<10	<10	<10	MANGA-
S 75-11-03 76-02-02 76-05-12 76-10-18	33 24 22 31	9.0 5.0 6.0 5.7	3.1 1.7 1.7 1.9	11 4.0 4.2 4.3	4.0 4.0 4.2 4.3	1.1 1.1 1.7 1.9	10 4.4 4.5 4.4	1.1 3.5 4.5 3.0	<50 5.2 2.5 2.2	<50 6.0 4.0 5.0	<30 <10 <10 10	<30 6.0 <10 5.0	<30 6.0 <10 5.0	<30 6.0 <10 5.0	<30 6.0 <10 5.0
74-10-27	24	4.9	1.7	4.0	4	4	2.0	4.6	<20	<20	<10	<10	<10	<10	MANGA-
75-11-03 76-02-02 76-05-12 76-10-18	33 24 22 31	9.0 5.0 6.0 5.7	3.1 1.7 1.7 1.9	11 4.0 4.2 4.3	4.0 4.0 4.2 4.3	1.1 1.1 1.7 1.9	10 4.4 4.5 4.4	1.1 3.5 4.5 3.0	10 5.2 4.5 3.0	<50 6.0 4.0 2.2	<50 6.0 <10 2.2	<30 6.0 <10 2.2	<30 6.0 <10 2.2	<30 6.0 <10 2.2	<30 6.0 <10 2.2
77-02-08 77-06-21 77-11-29 78-03-20	46 21 34 24	6.3 4.9 5.6 5.3	2.0 1.6 1.9 1.7	4.0 3.7 4.1 3.9	4 4 4 4	4 4 4 4	1.5 2.5 3.0 3.0	2.1 2.6 3.0 2.6	20 60 50 30	<10 60 50 30	<10 60 50 30	<10 60 50 30	<10 60 50 30	<10 60 50 30	<10 60 50 30
S 36711	72-12-05 73-07-18 73-11-14 74-04-08 74-11-01	34 40 42 45 39	8.6 8.1 8.0 10 6.1	2.6 2.0 2.8 3.6 2.1	5.0 5.5 5.5 5.0 5.5	9 5 6 7 5	7.5 7.0 8.0 8.3 5.0	9.0 7.0 8.0 7.0 5.0	<10 11 10 10 7.7	<10 10 10 10 7.7	<10 10 10 10 7.7	<10 10 10 10 7.7	<10 10 10 10 7.7	<10 10 10 10 7.7	<10 10 10 10 7.7
	75-02-24 75-11-16 76-01-17 76-08-20 76-12-16	32 28 33 45 36	9.0 7.2 9.0 10 8.9	3.0 2.3 2.9 3.6 3.1	5.0 4.7 5.7 6.2 5.8	5 5 5 7 6	7.0 3.0 5.5 7 5	7.2 8.0 10 8.3 7.7	<20 90 30 <10 <10	<20 90 30 <10 <10	<10 90 30 <10 <10	<10 90 30 <10 <10	<10 90 30 <10 <10	<10 90 30 <10 <10	<10 90 30 <10 <10
77-04-13 77-06-29 77-09-19	48 23 36	8.5 7.8 7.3	2.9 2.5 2.4	5.7 4.2 4.7	6 5 6	6.0 4.0 5.5	7.9 6.7 5.5	7.9 6.7 5.5	<10 10 <10	<10 10 <10	<10 10 <10	<10 10 <10	<10 10 <10	<10 10 <10	<10 10 <10

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- IFI- ER	LAT- I- TUDE	LONG- I- TUDE	SEQ NO	DATE OF SAMPLE	SPECIFIC CON- DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE DISSOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRITE TOTAL (MG/L AS N)	
S 36711	40 53 35	072 56 29	01	78-01-26	72	6.5	E16	31	<.01	<.01
S 37847	40 49 32	073 06 03	01	72-10-10	105	6.2	E20 E18	20	.00	2.7
				73-08-01	64	6.2		15	.00	.04
				73-12-10	65	5.9		15	.00	.38
				74-04-18	64	6.4	9.5	15	.00	.36
				74-06-19	61	6.4	8.2	13	.00	<.10
				74-11-06	135	6.0	E36	23	.00	2.0
				75-01-23	67	6.4	E10	16	.00	<.10
				75-11-10	66	6.3	E15	20	.00	.34
				76-02-08	75	6.2	E22	22	.00	.24
				76-04-29	75	6.3	17	17	.00	1.2
				76-05-20	73	6.5	9.6	19	<.01	1.1
				76-11-10	71	6.5	9.1	18	<.01	1.1
				77-02-15	79	6.5	9.1	18	<.01	1.1
				77-05-27	51	6.3	E13	17	<.01	.96
				77-11-30	73	6.4	E11	18	<.01	.68
				78-03-28	73	6.3	E14	18	<.01	1.4
S 38194	40 56 52	072 59 00	02	72-12-02	60	6.6	7.6	19	.00	<.10
				73-07-18	57	6.2	E20	20	.00	<.10
				73-12-04	58	6.2	E22	22	.00	<.10
				74-08-10	54	6.4	9.5	15	.00	<.10
				74-11-28	116	6.5	5.5	11	.00	1.7
				75-04-05	67	6.6	7.9	16	.00	.77
				75-12-18	65	6.8	6.3	25	.00	<.10
				76-04-14	69	6.6	9.6	24	.01	.07
				76-08-06	60	6.7	7.0	22	.01	.12
				76-12-19	144	6.8	3.5	14	.01	3.3
				77-04-03	59	6.9	4.8	24	<.01	.08
				77-06-28	57	6.3	E18	23	<.01	.15
				77-09-19	60	6.4	E13	22	<.01	.08
				78-02-15	60	6.4	E13	22	<.01	.03

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM				POTAS- SIUM				IRON, NESE,			
			TOTAL RECOV- ERABLE (MG/L AS MG)	TOTAL RECOV- ERABLE (MG/L AS CA)	TOTAL RECOV- ERABLE (MG/L AS NA)	AS K)	TOTAL RECOV- ERABLE (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	RIDE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	TOTAL RECOV- ERABLE (UG/L AS FE)	TOTAL RECOV- ERABLE (UG/L AS MN)			
S 36711	78-01-26	31	7.5	2.6	5.2	.9	3.0	1.9	1.9	<10	<10	<10	<10	<10
S 37847	72-10-10	32	7.4	2.7	8.2	1.4	7.0	4.0	<10	<10	<10	<10	<10	<10
	73-08-01	24	3.8	1.4	4.7	4.7	7.0	2.5	<10	<10	<10	<10	<10	<10
	73-12-10	40	3.5	1.2	5.7	4.4	8.0	4.2	<10	<10	<10	<10	<10	<10
	74-04-18	24	3.6	1.6	5.0	5.0	7.5	3.6	<20	<10	<10	<10	<10	<10
	74-06-17	19	3.9	1.6	5.0	5.0	7.0	3.2	<50	<10	<10	<10	<10	<10
	74-11-06	33	8.0	3.4	10.0	1.0	11.	6.2	<20	80				
	75-01-23	22	4.4	1.5	5.0	3.3	6.0	2.2	<50	<10	<10	<10	<10	<10
	75-11-10	16	4.4	2.0	5.1	5.5	7.0	4.0	<50	10				
	76-02-08	22	6.4	1.9	6.1	5	7.5	6.2	<10	<10	<10	<10	<10	<10
	76-04-29	18	--	--	--	--	6.3	2.4	10	0				
	76-05-20	20	5.6	1.8	5.7	5	6.0	4.8	<10	<10	<10	<10	<10	<10
	76-11-10	18	4.4	1.7	5.7	4	5.5	3.8	20	<10	<10	<10	<10	<10
	77-02-15	20	4.4	1.8	5.3	5	6.0	3.1	20	20	20	20	20	20
	77-05-27	22	4.5	1.7	5.2	5	6.5	3.0	<10	<10	<10	<10	<10	<10
	77-11-30	28	4.5	1.8	5.7	5	6.0	3.7	<10	<10	<10	<10	<10	<10
	78-03-28	24	5.3	2.0	6.3	6	7.5	3.7	50	20				
S 38194	72-12-02	30	4.4	1.3	5.2	8	5.5	1.5	<10	<10	<10	<10	<10	<10
	73-07-18	20	3.7	1.2	4.5	6	5.0	2.0	<10	<10	<10	<10	<10	<10
	73-12-04	30	3.6	1.1	5.0	5	4.5	2.0	<10	<10	<10	<10	<10	<10
	74-08-10	17	3.8	1.6	4.5	6	4.5	6.3	<20	<10	<10	<10	<10	<10
	74-11-28	38	8.0	3.7	5.6	1.0	11	12	<20	<10	<10	<10	<10	<10
	75-04-05	25	3.8	1.4	4.0	5	5.0	1.0	<50	<10	<10	<10	<10	<10
	75-12-18	18	4.8	1.6	4.7	6	5.0	3.0	50	<10	<10	<10	<10	<10
	76-04-14	19	4.4	1.7	4.4	6	5.0	6	<10	<10	<10	<10	<10	<10
	76-08-06	20	4.3	1.6	4.4	6	6.5	3.0	22	<10	<10	<10	<10	<10
	76-12-19	33	11	4.7	6.0	6	8.5	6	<10	<10	<10	<10	<10	<10
	77-04-03	26	4.2	1.7	4.4	6	5.5	1.2	<10	<10	<10	<10	<10	<10
	77-06-28	16	4.1	1.5	4.2	6	3.0	1.7	40	<10	<10	<10	<10	<10
	77-09-19	26	4.2	1.7	4.4	6	3.0	1.4	50	<10	<10	<10	<10	<10
	78-02-15	26	5.9	1.7	4.6	6	4.0	1.4	4.0	<10	<10	<10	<10	<10

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	SPE- CIFIC COND- DUCT- ANCE (MICRO- MHOES)	PH	DICHO- GENE- CON- DUCT- ANCE (MICRO- MHOES)	DATE OF SAMPLE	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
								(UNITS)	(UNITS)	(UNITS)	(UNITS)	(UNITS)	(UNITS)	(UNITS)
S 39347	40 50 54	073 05 09	01	74-02-06	118	6.2	E20	104	6.1	8.8	7	20	0.0	--
				74-06-19	110	5.9		99	5.9	8.0	8	0.0	0.0	2.4
				74-10-16	110	6.3		114	6.2	8.0	10	0.0	0.0	2.8
				75-01-22	99	6.3		114	6.2	8.0	6	0.0	0.0	1.3
				75-05-19	114	5.9								3.0
				75-11-05	112	5.9	--					11	0.1	3.7
				76-03-02	112	6.0	E28					18	0.0	2.2
				76-05-19	112	6.0	E22					14	< 0.1	4.1
				76-10-03	120	6.0	27					17	< 0.1	4.2
				77-02-07	122	5.8	--					14	< 0.1	4.6
				77-06-01	92	5.9	--					13	< 0.1	4.2
				77-11-14	142	5.8	--					12	< 0.1	6.0
				78-03-21	133	5.8	--					14	< 0.1	6.4
S 40161	40 53 35	072 56 29	02	75-03-17	67	7.3	1.8					22	0.0	< 1.0
				75-11-18	70	6.6	E11					28	0.0	< 1.0
				76-02-18	73	6.8	5.5					22	0.0	< 1.0
				77-04-13	113	7.0	6.7					42	< 0.1	1.9
				77-06-25	87	6.8	8.3					33	< 0.1	5.6
				77-11-14	104	6.8	7.8					31	< 0.1	4.2
				78-03-13	100	6.8	7.1					28	< 0.1	4.8
				72-10-18	62	6.1	E12					10	0.0	6.0
				73-06-17	56	6.2	E12					12	0.0	5.6
				73-09-30	64	5.8	--					9	0.0	9.8
				74-02-10	69	6.2	E12					12	0.0	1.2
				74-06-25	64	5.9	--					10	0.0	5.6
				74-10-10	74	6.4						13	0.0	1.3
				75-01-27	62	6.5	6.5					13	0.0	1.2
				75-11-20	78	6.3	E12					16	0.6	2.5
				76-02-09	89	6.6	6.4					16	0.0	8.4
				76-05-26	76	6.4	9.5					15	< 0.1	2.0
				76-10-23	80	6.7	5.4					17	< 0.1	1.9
				77-02-03	86	6.3	E11					15	< 0.1	2.3
				77-06-29	80	6.1	E21					17	< 0.1	2.0

LOCAL IDENT- IFIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS CL)		SULFATE, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )		IRON, TOTAL RECOV- ERABLE (UG/L AS FE)		MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)
							RECOV- ERABLE (MG/L AS K)	SOLVED AS CL)	SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	
S 39347	74-02-06 74-06-19	40 34	9.2 7.0	1.7 3.0	8.5 6.9	7 6.9	1.8 1.7	1.1 1.1	80 9.5	<10 <10	<10 <10	<10 <10	
	74-10-16 75-01-22	30 33	6.7 5.5	2.6 2.4	7.5 8.5	9 7.5	9 7.7	9.5 1.1	-- --	<20 <20	<20 <20	<10 <10	
	75-05-19	26	4.0	2.2	7.0	1.1	1.1	9.5 9.5	8.0 9.4	<50 <20	<50 <20	<10 <10	
	75-11-05 76-03-02	32 43	9.0 8.4	3.3 2.6	8.3 7.7	1.1 1.3	1.0 1.2	1.1 1.3	11 13	50 <10	50 <10	50 <10	
	76-05-19 76-10-03	33 35	8.0 7.5	2.9 3.1	8.2 9.2	1.4 1.4	1.1 1.1	10 9.5	10 9.9	<10 <10	<10 <10	<10 10	
	77-02-07	34	7.6	3.2	9.0	1.5	1.5	9.5 9.5	11 11	30 30	<10 <10	<10 <10	
	77-06-01 77-11-14 78-03-21	31 42 42	6.6 8.1 9.5	2.8 3.6 3.6	8.2 10 12	1.4 1.4 1.2	1.4 1.0 1.3	9.5 10 13	10 9.9 11	<10 <10 40	<10 <10 <10		
S 40161	75-03-17 75-11-18 76-02-18 77-04-13 77-06-25	20 33 22 50 41	4.9 9.0 5.8 11 10	1.5 2.6 1.9 4.0 3.0	4.0 4.4 4.5 6.2 5.6	7 7 7 7 6	2.5 6.0 4.0 5.5 6.0	2.5 6.0 4.0 5.5 7.9	2.2 6.2 4.6 6.4 7.9	70 160 220 <10 <10	70 160 220 10 10	<10 <10 <10 10 10	
	77-11-14 78-03-13	44 36	9.1 8.7	3.0 2.9	6.3 5.7	7 6	4.5 5.5	4.5 5.5	8.1 8.6	40 150	40 150	<10 <10	
S 40331	72-10-18 73-06-17 73-09-30 74-02-10 74-06-25	60 20 16 24 16	4.0 3.9 3.8 4.2 3.3	1.2 1.1 1.5 1.9 1.4	4.5 5.0 5.0 5.5 5.5	6 6 4 5 5	5.0 6.0 6.0 7.0 8.0	5.0 6.0 6.0 7.0 8.0	3.5 4.0 3.5 4.7 5.2	<10 <10 <10 <10 50	<10 <10 <10 <10 30		
	74-10-10 75-01-27 75-11-20 76-02-09 76-05-26	26 18 22 23 22	4.2 4.7 6.7 5.8 5.4	1.7 1.8 2.0 2.0 1.8	5.0 5.5 5.8 6.4 5.8	5 4 5 6 6	7.0 8.0 8.0 9.5 6.0	1.8 2.4 5.0 5.2 5.7	<20 <50 <50 50 <10	<20 <50 <50 50 <10	<20 <50 <50 50 <10		
	76-10-23 77-02-03 77-06-29	25 24 33	5.6 5.4 5.7	1.9 1.9 2.0	5.3 6.5 5.5	5 6 5	5.5 5.0 5.0	3.1 3.4 3.8	30 <10 20	<10 <10 20	<10 <10 20		

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC COND- DUCT- ANCE (MICRO- MHOS)	PH	(UNITS) AS CO <sub>2</sub>	CARBON DIOXIDE DISSOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- NITRITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
										NITRO- GEN, NITRITE TOTAL (MG/L AS N)	
S 40331	40 52 21	073 02 12	01	77-11-30 78-03-23	77 92	6.7 6.1	E18	5.7 15	18 15	<.01 <.01	1.5 2.9
S 40837	40 55 14	073 05 01	01	74-03-13 74-08-10 74-11-27 75-04-05 75-08-06	124 91 106 112 100	6.2 6.2 6.6 6.3 6.5	E14	14 7.0 4.4 9.6 6.0	14 7 11 12 12	<.00 .02 .00 .00 .00	1.3 1.0 1.1 1.6 1.0
				75-12-19 76-04-06 76-05-16 76-09-16 77-01-11	132 142 130 103 116	6.4 6.6 6.5 6.6 6.5	E10	16 7.2 7.5 6.4 9.1	16 18 15 16 18	<.05 <.01 <.01 <.01 <.01	1.6 3.0 2.4 1.9 2.3
				77-07-25 77-11-07 78-02-27	100 130 106	6.1 6.2 6.2	E21 E17 E16	17 17 16	<.01 <.01 <.01	1.5 2.5 2.1	
S 40838	40 55 14	073 05 01	02	74-02-03 74-08-10 74-11-27 75-04-05 75-08-07	131 122 138 150 141	6.0 6.2 6.3 6.2 6.3	E20 8.0 8.8 E14 E10	13 10 11 15 15	<.00 .19 .00 .00 .00	1.6 1.4 2.0 1.90 2.4	
				75-12-19 76-04-03 76-05-16 76-07-19 77-01-11	142 144 155 149 136	6.3 6.2 6.3 6.8 6.3	E12 E16 E19 E14 E13	16 16 25 19 17	<.01 <.01 <.01 <.01 <.01	1.8 3.3 3.7 3.7 3.3	
				77-07-24 77-11-08 78-02-25	130 116 155	6.0 6.1 6.2	E25 E24 E15	16 19 15	<.01 <.01 <.01	3.1 2.1 4.1	
S 42504	40 52 15	073 01 15	01	72-05-19 74-01-28	108 95	6.0 6.4	E38 E15	24 25	<.00 .00	.34 1.2	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACD3)	CALCIUM TOTAL RECOV- ERABLE (MG/L AS Ca)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	PCTAS-			IRON, MANGA- NESE,		
					SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	CHLORIDE, TOTAL RECOV- ERABLE (MG/L AS Cl)	SULFATE, DISSOLVED (MG/L AS SO4)	TOTAL RECOV- ERABLE (UG/L AS Mn)	TOTAL RECOV- ERABLE (UG/L AS Fe)	
S 40531	77-11-30	30	5.6	2.0	6.4	.6	5.0	3.6	80	<10
	78-03-23	29	7.0	2.5	6.9	.7	6.0	4.6	<10	20
S 40837	74-03-13	4.4	10	4.4	5.4	.6	10	78	<10	<10
	74-08-10	25	6.8	3.1	4.9	.6	8.0	--	<20	<10
	74-11-27	34	7.0	3.9	5.0	.6	7.5	--	<20	<10
	75-04-05	32	8.0	2.8	4.0	.5	8.0	12	<50	<10
	75-08-06	32	9.5	3.5	4.8	.6	10	14	<20	<10
	75-12-19	42	11	3.9	4.8	.5	10	23	50	<10
	76-04-06	55	12	5.5	5.9	.7	7.5	22	<10	<10
	76-05-16	48	9.7	4.4	5.6	.7	9.0	16	20	<10
	76-09-16	35	6.5	3.0	5.0	.6	5.5	14	<10	<10
	77-01-11	52	10	4.0	5.4	.7	7.0	15	20	<10
	77-07-25	33	6.8	3.1	4.9	.6	5.0	12	30	<10
	77-11-07	59	11	4.5	6.0	.7	8.0	16	<10	<10
	78-02-27	33	7.9	3.5	5.9	.6	8.0	11	30	<10
S 40838	74-02-03	50	9.7	4.3	5.4	.7	8.5	91	<10	<10
	74-08-10	48	10	4.7	5.0	.6	9.5	--	<20	<10
	74-11-27	49	11	5.0	5.5	.6	7.5	--	<20	<10
	75-04-05	50	9.5	4.4	5.0	.6	8.5	18	<50	<10
	75-08-07	47	13	5.1	5.5	.7	10	25	60	<10
	75-12-19	54	10	5.1	6.2	.8	11	24	80	<10
	76-04-03	45	11	4.9	6.3	.7	11	21	30	<10
	76-05-16	54	14	5.6	6.7	.8	11	18	<10	<10
	76-09-19	52	13	5.6	7.2	.8	8.0	24	<10	<10
	77-01-11	50	11	4.6	6.5	.7	7.0	18	<10	<10
	77-07-24	46	10	4.6	6.4	.7	8.0	18	30	<10
	77-11-08	54	9.0	3.6	5.7	.6	6.5	14	<10	<10
	78-02-26	52	11	5.0	7.5	.8	10	22	30	<10
S 42504	72-05-19	33	7.6	2.8	9.1	.6	12	--	<50	<10
	74-01-28	33	10	1.7	6.1	.6	10	72	<10	<10

Table 5.—Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC CON- DUCT- ANCE (MICRO- Mhos)	PH (UNITS)	CARBON DIOXIDE SOLVED (MG/L AS CO <sub>2</sub> )	ALKALINITY (MG/L AS CACO <sub>3</sub> )	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	
									SPE- CIFIC CON- DUCT- ANCE (MICRO- Mhos)	DATE OF SAMPLE
S 42504	40 52 15	073 01 15	01	74-10-02	122	6.2	E23	23	0.0	.53
				75-01-08	64	6.6	6.0	15	0.0	.68
				75-05-21	100	6.1	E25	20	.09	<.10
				75-10-22	97	5.6	—	21	.01	.60
				76-01-20	98	6.0	E31	20	.00	.72
				76-06-24	119	6.7	7.9	25	<.01	1.2
				76-11-09	122	6.1	E30	28	<.01	1.8
				77-02-21	122	6.0	E36	23	<.01	1.6
				77-08-15	122	5.6	—	20	<.01	1.6
				77-12-11	128	5.9	—	18	<.01	1.1
				78-03-22	116	6.0	E25	16	<.01	1.7
S 42505	40 52 13	073 01 13	02	74-01-28	53	5.7	—	10	0.0	.53
				74-05-19	54	6.1	E18	7	0.0	.32
				74-10-02	130	6.4	E13	21	0.0	.60
				75-01-08	49	6.3	6.0	10	0.0	.45
				75-07-17	58	6.2	9.0	9	.01	.32
				75-10-22	54	6.1	E12	10	0.0	.36
				76-01-20	56	6.0	E17	11	0.0	.26
				76-06-22	63	6.6	5.2	13	<.01	.83
				76-11-14	0	6.1	E17	14	<.01	.93
				77-08-15	69	6.2	E14	14	<.01	1.0
				77-12-08	72	5.8	—	13	<.01	.95
				78-02-22	68	6.2	E14	14	<.01	1.0
				78-04-03	71	6.1	E24	19	<.01	1.2
S 42760	40 50 54	073 05 09	02	74-02-06	96	5.5	—	8	0.0	1.9
				74-06-19	101	6.0	9.5	6	0.0	2.9
				74-10-16	120	6.1	E10	8	0.0	3.8
				75-01-22	102	6.3	E10	13	0.0	2.6
				75-05-19	120	6.2	E10	10	.02	3.5
				75-11-05	12	6.0	E25	16	.01	4.2
				76-02-05	130	6.2	E18	18	0.0	2.7
				76-05-19	135	6.5	9.1	18	<.01	5.7
				76-10-05	155	6.1	24	19	<.01	5.9

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG./L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MgO)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS Cl)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NIESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
				TOTAL RECOV- ERABLE (MG/L AS MgO)	TOTAL RECOV- ERABLE (MG/L AS Na)	TOTAL RECOV- ERABLE (MG/L AS K)	DIS- SOLVED (MG/L AS Cl)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NIESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
S 42504	74-1C-02	22	7.5	8	7.7	6	10	—	<20	20
	75-01-08	22	6.8	1.3	4.0	4	7.5	7.2	<20	<10
	75-05-21	24	6.4	1.9	7.7	6	9.5	10	<20	<10
	75-10-22	28	9.0	3.0	6.5	8	7.5	11	60	<10
	76-01-20	26	9.2	2.4	6.6	8	9.5	11	<10	<10
	76-06-24	33	7.1	3.0	7.2	9	9.0	6.2	<10	<10
	76-11-09	30	7.6	3.0	7.8	9	5.5	11	<10	<10
	77-02-21	42	7.5	3.2	7.7	1.0	9.0	11	<10	<10
	77-08-15	34	7.2	3.1	7.6	1.0	11	10	30	20
	77-12-11	34	7.5	3.0	7.7	1.0	11	11	<10	20
	78-03-22	38	7.7	3.1	8.2	9	12	11	20	<10
S 42505	74-01-28	13	3.6	9	4.5	4	6.0	50	<10	<10
	74-05-19	15	3.2	1.2	4.3	5	6.5	—	<50	<10
	74-10-02	31	8.5	2.5	7.5	7	11	—	50	20
	75-01-08	18	4.1	1.1	4.0	4	7.5	7.2	<20	<10
	75-07-17	15	4.3	1.4	4.2	4	5.0	8.0	<50	<10
	75-10-22	19	5.4	1.5	4.4	4	5.0	10	50	20
	76-01-20	17	4.8	1.3	4.1	4	4.0	7.0	<10	<10
	76-06-22	16	3.9	1.4	4.0	4	3.5	6.0	<10	<10
	76-11-14	19	4.7	1.6	4.8	4	5.0	7.4	<10	<10
	77-08-15	24	4.4	1.7	4.7	5	5.0	6.1	<10	<10
	77-12-08	20	4.5	1.7	4.7	5	4.5	6.1	<10	<10
	78-02-22	24	5.3	1.6	4.8	5	4.0	6.2	<10	10
	78-04-03	22	6.3	1.7	4.7	5	6.5	6.1	60	30
S 42760	74-02-06	40	4.5	1.6	7.8	7	9.5	70	<10	<10
	74-06-19	28	6.4	2.3	7.8	8	11	—	<50	<10
	74-10-16	30	6.2	2.7	9.5	8	10	—	<20	20
	75-01-22	32	7.0	2.6	9.5	5	12	4.2	<50	50
	75-05-19	30	9.2	2.3	9.0	8	14	8.2	<20	<10
	75-11-05	35	1.1	3.9	9.5	8	14	9.6	40	<10
	76-02-05	38	1.1	3.8	9.3	9	15	10	<10	<10
	76-05-19	40	1.2	3.8	9.4	1.2	12	8.6	<10	20
	76-10-05	49	1.1	4.3	11	1.0	16	7.5	<10	<10

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the town of Brookhaven (Continued)

LEGAL IDENT- I- FIER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- Mhos)	PH (UNITS)	CARBON DIOXIDE (MG/L AS CO <sub>2</sub> )	ALKAL- INITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)		
									SPE- CIFIC COND-	DIS- SOLVED (MG/L AS N)	NITRite TOTAL (MG/L AS N)
S 42760	40 50 54	073 05 09	02	77-02-07 77-06-01 77-11-14 78-03-21	153 130 165 140	5.9 5.8 5.9 6.1	-- -- -- E23	17 16 15 18	<.01 <.01 <.01 <.01	7.4 6.7 7.2 7.0	
S 46401	40 50 02	073 02 26	00	73-02-07 74-11-01 75-02-24 75-11-16 76-02-17	100 100 104 120 114	7.2 6.7 6.8 6.6 6.6	2.6 6.0 5.8 5.8 E10	21 19 23 22 26	-- -- -- -- <.01	1.2 1.2 1.0 2.6 B6	
S 47219	40 54 07	073 00 11	02	76-05-22 76-11-10 77-02-22 77-08-15 77-12-12	118 130 102 151 123	7.0 6.6 6.7 6.9 6.7	4.0 10 8.9 7.6 7.9	25 26 28 38 25	<.01 <.01 <.01 <.01 <.01	1.9 2.5 2.5 2.4 1.8	
S 51265	40 54 10	073 01 05	04	77-12-11 78-03-21	123 122	6.7 6.4	8.2 7.0	26 26	<.01 <.01	1.9 2.4	
				75-07-07 75-11-09	134 112 114 121 115	6.1 6.2 6.4 6.3 6.2	E11 E10 E10 E16 E16	9 10 7.0 9.5 16	<.01 <.00 <.00 1.0 1.0	9.6 1.1 <.10 <.10 1.0	
				76-02-24 76-06-22 76-11-14 77-02-22 77-05-15	104 122 115 110 116	6.3 6.1 6.7 6.0 5.8	E12 E18 E29 E29 --	16 15 10 18 14	<.00 <.01 <.01 <.01 <.01	8.0 1.7 2.1 2.0 2.3	
				77-12-11 78-03-21	127 122	6.0 6.4	E17 7.0	11 11	<.01 <.01	2.5 2.4	
				75-11-09 76-02-15	63 61 60	7.0 6.7 6.7	3.2 3.2 5.7	20 19 19	<.00 <.00 <.00	<.10 <.10 <.10	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG./L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS Ca)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	MANGA- NESE,		
							TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	IRON, TOTAL, RECOV- ERABLE (UG/L AS Fe)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )
S 42760	77-02-07	52	11	4.3	11	1.0	13	8.7	<10
	77-06-01	56	9.8	3.8	11	1.0	15	8.5	<10
	77-11-14	45	10	3.7	12	1.0	14	8.6	<10
	78-03-21	40	11	3.9	12	.9	15	9.7	<10
S 45400	73-02-07	39	--	--	--	--	6.6	12	60
	74-11-01	29	7.1	3.0	5.6	.9	8.5	--	<20
	75-02-24	32	7.8	3.1	6.0	.7	7.0	9.2	<20
	75-11-16	54	11	3.8	6.0	.8	8.5	14	<50
S 46420	76-02-17	27	8.4	3.2	6.3	.7	9.0	11	20
	76-06-22	42	8.8	3.6	5.8	.7	9.0	8.5	<10
	76-11-10	40	11	4.2	7.3	.8	11	9.5	<10
	77-02-22	48	10	4.4	7.2	.8	9.0	9.0	<10
S 47219	77-08-15	58	14	4.5	7.7	.9	10	8.9	30
	77-12-12	35	7.8	3.8	7.5	.8	10	9.4	<10
	78-03-27	40	10	4.0	7.2	.8	10	9.4	<10
	74-06-30	46	7.0	4.0	6.5	.7	9.0	--	<20
S 51266	74-11-01	46	7.1	3.7	5.5	.7	6.0	--	<20
	75-03-04	35	9.0	3.8	5.5	.6	7.0	20	<20
	75-07-08	42	10	4.2	5.8	.7	7.5	27	<50
	75-11-09	43	12	4.9	5.7	.7	9.0	27	30
S 51266	76-02-24	33	8.7	3.8	5.5	.7	7.0	25	80
	76-06-22	42	8.7	3.8	4.8	.6	7.0	22	<10
	76-11-14	27	8.6	3.4	5.6	.6	5.5	21	<10
	77-02-22	43	10	4.1	5.5	.7	6.5	19	<10
S 51266	77-08-15	39	8.7	3.8	5.4	.6	7.5	17	30
	77-12-11	41	10	4.1	5.5	.7	7.5	20	<10
	78-03-21	42	10	4.3	5.4	.7	8.5	22	<10
	75-07-07	19	5.2	1.5	3.9	.6	5.0	3.2	<50
S 51266	75-11-09	18	5.2	1.5	3.9	.5	3.0	3.4	<50
	76-02-15	18	4.7	1.3	3.9	.5	3.0	3.0	<10

Table 5.--Chemical analyses of water from public-supply wells screened in the upper glacial aquifer in the northern part of the town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC COND-	DUCT- ANCE (MICRO- MHS)	PH (UNITS)	SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- NITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE		
										CARBON DIOXIDE (MG/L AS N)	NITRITE (MG/L AS N)	TOTAL (MG/L AS N)
S 51266	40 54 10	073 01 05	01	76-06-22	60	7.0	2.9	1.8	<.01	<.01	<.01	<.01
				76-11-15	55	7.5	1.0	2.0	<.01	<.01	<.01	1.4
				77-02-22	51	7.1	2.5	2.0	<.01	<.01	<.01	1.2
				77-08-21	51	6.5	9.6	1.9	<.01	<.01	<.01	<.01
				77-12-08	53	7.0	2.9	1.8	<.01	<.01	<.01	.06
				78-03-28	49	6.8	4.3	1.7	<.01	<.01	<.01	<.01
S 51953	40 56 07	073 02 13	01	75-08-07	93	6.7	6.3	2.0	<.01	<.01	<.01	1.6
				75-12-19	96	6.5	E11	2.2	<.01	<.01	<.01	1.4
				76-04-06	98	6.6	9.6	2.4	<.01	<.01	<.01	2.5
				76-08-06	101	6.9	5.0	2.5	<.01	<.01	<.01	2.2
				76-12-19	105	6.4	16	2.6	<.01	<.01	<.01	2.8
				77-04-09	106	7.0	3.8	2.4	<.01	<.01	<.01	2.9
				77-09-26	108	6.5	E11	2.2	<.01	<.01	<.01	2.3
				78-01-26	111	6.0	E34	2.2	<.01	<.01	<.01	2.3
S 52451	40 54 07	073 00 11	03	75-07-13	131	6.1	E10	1.3	<.01	<.01	<.01	<.10
				76-02-23	120	6.2	E15	1.5	<.01	<.01	<.01	1.0
				76-06-24	146	6.3	E12	1.5	<.01	<.01	<.01	2.5
				76-11-09	136	6.6	E10	2.7	<.01	<.01	<.01	2.6
				77-02-23	134	5.9	--	1.7	<.01	<.01	<.01	2.4
				77-08-15	134	6.0	E27	1.7	<.01	<.01	<.01	2.1
				77-12-15	137	6.1	E15	1.2	<.01	<.01	<.01	2.2
				78-03-30	135	6.0	E20	1.3	<.01	<.01	<.01	2.0

LOCAL, IDENT- #— FILER	DATE OF SAMPLE	HARD- NESS (mg/L AS CACO <sub>3</sub> )	MAGNE-			POTAS-			MANGA—		
			CALCIUM TOTAL	SODIUM, TOTAL RECOV- ERABLE (mg/L AS NO)	CHLOR- IDE, TOTAL RECOV- ERABLE (mg/L AS NA)	SULFUM, TOTAL RECOV- ERABLE (mg/L AS NO)	SULFATE, DIS- SOLVED (mg/L AS CL)	IRON, TOTAL RECOV- ERABLE (ug/L AS Mn)	MANGANESE, TOTAL RECOV- ERABLE (ug/L AS Mn)	MANGANESE, TOTAL RECOV- ERABLE (ug/L AS Mn)	MANGANESE, TOTAL RECOV- ERABLE (ug/L AS Mn)
S 5126e	75-06-22	18	4.6	1.3	3.2	5	5.0	2.3	4.0	<10	<10
	75-11-15	20	4.6	1.3	3.9	4	3.0	2.5	3.0	<10	<10
	77-02-22	24	5.0	1.4	3.9	5	4.5	2.5	3.0	<10	<10
	77-08-21	25	4.4	1.2	3.1	5	4.5	1.9	9.0	<10	<10
	77-12-08	20	4.1	1.1	3.5	5	2.5	2.0	<10	<10	<10
	78-03-28	17	3.8	1.4	3.6	5	4.0	2.1	2.0	1.0	1.0
S 5145d	75-08-07	25	1.1	2.4	6.1	6	7.5	6.2	5.0	<10	<10
	75-12-19	25	7.8	2.3	6.4	6	8.0	6.8	<10	<10	<10
	76-04-06	49	9.1	3.1	6.5	6	6.0	3.9	<10	<10	<10
	76-08-05	32	7.9	6.6	6.3	6	7.0	4.6	<10	<10	<10
	76-12-19	48	10	3.3	7.1	7	7.5	3.8	<10	<10	<10
	77-04-09	37	7.7	2.7	7.2	7	8.0	4.1	<10	<10	<10
	77-09-26	34	8.5	3.0	7.3	7	9.5	5.2	<10	<10	<10
	78-01-26	32	8.0	3.0	7.8	7	8.5	4.8	<10	<10	<10
S 5245f	75-07-13	64	17	4.4	6.1	9	7.0	3.2	<50	<10	<10
	75-02-23	36	11	4.8	6.0	8	6.5	3.6	4.0	<10	<10
	76-06-24	54	12	5.3	5.5	7	5.0	3.1	<10	<10	<10
	76-11-09	44	13	6.3	6.1	7	3.0	3.0	<10	<10	<10
	77-02-23	55	12	6.3	6.0	8	5.5	2.8	<10	<10	<10
	77-08-15	59	11	5.1	5.5	7	6.0	2.7	2.0	<10	<10
	77-12-15	53	10	4.5	5.6	8	7.5	2.6	<10	<10	<10
	78-03-20	47	11	4.6	5.6	8	7.5	2.6	<10	<10	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the Maquayu aquifer in the northern part of the Town of Brookhaven

LOCAL IDENT- IFIER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC CON- DUCT- ANCE (MICRO- MHS)	PH (UNITS)	CARBON DIOXIDE DISSOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)		
									C	N	T
S 14792	40 54 53	073 03 03	02	74-04-08 74-06-30 74-11-03 75-03-02 75-07-11	137 104 106 128 104	6.5 6.6 6.6 6.5 6.8	7.5 5.6 7.2 7.0 4.5	15 14 18 14 18	.00 .01 .02 .00 .00	1.8 1.1 1.1 1.5 <.10	
S 17689	40 54 49	073 02 56	01	72-12-07 73-07-18 73-11-28 74-04-08 74-07-02	40 40 36 42 39	6.2 6.3 6.1 6.6 6.6	E11 E10 E15 4.8 4.0	11 13 12 12 10	.00 .00 .00 .00 .01	<.10 <.10 <.10 <.10 <.10	
S 19465	40 54 43	073 06 45	01	72-10-17 73-05-14 73-09-11 74-01-29 74-05-29	90 35 36 50 72	6.6 6.0 6.0 5.9 6.1	E15 E15 — E16 E10	22 10 10 8 13	.00 .00 .00 .00 .00	.28 .30 .30 <.10 .36	
				74-10-10	77	6.4				.00	.77

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM				POTAS- SIUM,				CHLO- RIDE,				IRON,				MANGA- NESE,
			CALCIUM TOTAL	RECOV- ERABLE (MG/L AS CA)	TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	TOTAL RECOV- ERABLE (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)								
S 14792	74-04-08	46	10	4	4	6.8	1.1	11	—	—	<50	<10	<10	<10	<10	<10	<10	MANGA- NESE,	
	74-06-30	30	7.2	3.2	5.0	8	7.0	—	—	—	<20	<10	<10	<20	<10	<20	<10	HARD- NESS (MG/L AS CACO <sub>3</sub> )	
	74-11-03	32	9.5	3.3	5.0	7	6.5	—	—	—	<20	<10	<10	<20	<10	<20	<10	RECOV- ERABLE (MG/L AS CA)	
	75-03-02	15	8.6	3.7	5.5	1.0	8.5	18	18	18	<50	<10	<10	<50	<10	<50	<10	RECOV- ERABLE (MG/L AS MG)	
	75-07-11	25	9.6	3.2	5.2	9	7.5	15	15	15	<50	<10	<10	<50	<10	<50	<10	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	
	75-11-09	41	10	4	4	5.9	1.0	6.0	24	24	<50	<10	<10	<50	<10	<50	<10	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	
	76-02-17	31	8.5	3.2	5.2	8	6.0	17	20	20	<10	<10	<10	<10	<10	<10	<10	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	
	76-05-16	44	9.7	4.0	5.8	1.0	7.0	16	50	50	<10	<10	<10	<10	<10	<10	<10	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	
	76-09-20	41	10	4.2	5.9	1.0	5.0	17	50	50	<10	<10	<10	<10	<10	<10	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	
	77-01-16	44	10	4.2	5.3	1.0	6.0	17	17	17	<10	<10	<10	<10	<10	<10	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	
	77-11-06	42	8.5	3.3	5.2	8	4.5	13	<10	<10	<10	<10	<10	<10	<10	<10	MANGA- NESE,		
	78-02-26	39	9.6	3.9	5.8	1.0	6.5	16	16	16	<10	<10	<10	<10	<10	<10	<10	HARD- NESS (MG/L AS CACO <sub>3</sub> )	
S 17637	72-12-07	14	3.2	7	3.2	5	4.5	4.5	2.0	2.0	<10	<10	<10	<10	<10	<10	<10	RECOV- ERABLE (MG/L AS CA)	
	73-07-18	20	2.6	5	3.2	4	4.5	4.5	1.5	1.5	<10	<10	<10	<10	<10	<10	<10	RECOV- ERABLE (MG/L AS MG)	
	73-11-28	6	2.4	3	3.4	4	4.0	4.0	2.0	2.0	<10	<10	<10	<10	<10	<10	<10	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	
	74-04-08	14	2.6	8	4.0	4	6.0	6.0	8	8	<50	<10	<10	<50	<10	<50	<10	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	
	74-07-02	10	2.2	8	3.1	3	6.5	6.5	1.2	1.2	<20	<10	<10	<20	<10	<20	<10	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	
	74-11-03	10	2.5	8	3.2	3	3.5	3.5	1.2	1.2	<20	<10	<10	<20	<10	<20	<10	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	
	75-03-04	10	2.2	8	3.0	3	3.0	3	6	6	<20	<10	<10	<20	<10	<20	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	
	75-11-10	17	2.9	9	3.3	3	2.5	2.5	3.8	3.8	<10	<10	<10	<10	<10	<10	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	
	76-02-20	9	2.7	7	3.3	3	4.0	4.0	2.2	2.2	<10	<10	<10	<10	<10	<10	<10	MANGA- NESE,	
	76-05-16	34	9.5	2.9	5.8	6	7.5	7.5	30	30	<10	<10	<10	<10	<10	<10	<10	HARD- NESS (MG/L AS CACO <sub>3</sub> )	
	76-09-22	12	2.9	8	3.3	3	4.0	4.0	1.3	1.3	<10	<10	<10	<10	<10	<10	<10	RECOV- ERABLE (MG/L AS CA)	
	77-01-12	17	4.5	1.2	3.4	5	2.5	2.5	2.2	2.2	<10	<10	<10	<10	<10	<10	<10	RECOV- ERABLE (MG/L AS MG)	
	77-05-03	13	2.6	7	2.8	3	4.5	4.5	8	8	<10	<10	<10	<10	<10	<10	<10	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	
	77-11-08	34	4.4	1.3	4.5	5	3.5	3.5	4.0	4.0	<20	<20	<20	<20	<20	<20	<20	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	
	78-02-27	27	6.0	2.1	4.0	6	4.0	4.0	6	6	<10	<10	<10	<10	<10	<10	<10	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	
S 19465	72-10-17	58	8.9	1.5	5.0	6	6.0	6.0	10	10	<10	<10	<10	<10	<10	<10	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	
	73-05-14	6	2.4	7	3.2	6	4.5	4.5	2.0	2.0	<10	<10	<10	<10	<10	<10	<10	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	
	73-09-11	10	1.9	4	3.2	3	4.0	4.0	2.1	2.1	<10	<10	<10	<10	<10	<10	<10	MANGA- NESE,	
	74-01-29	14	2.6	5	4.5	4	5.5	5.5	4.0	4.0	<10	<10	<10	<10	<10	<10	<10	HARD- NESS (MG/L AS CACO <sub>3</sub> )	
	74-05-29	18	4.2	1.8	5.9	5	9.5	9.5	4.0	4.0	<20	<20	<20	<20	<20	<20	<20	RECOV- ERABLE (MG/L AS CA)	
	74-10-10	23	4.0	1.8	5.5	5	9.5	9.5	2.0	2.0	<20	<20	<20	<20	<20	<20	<20	RECOV- ERABLE (MG/L AS MG)	

Table 6.--Chemical analyses of water from public-supply wells screened in the Magathy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUE	LONG- I- TUE	SEG. NO.	DATE OF SAMPLE	SPECIFIC COND- DUCT- ANCE (MICRO- MHOES)	PH	(UNITS) (MG/L AS CO <sub>2</sub> )	CARBON DIODE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
								(UNITS) (MG/L AS CO <sub>2</sub> )	CARBON DIODE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
S 19465	40 54 43	073 06 45	01	75-01-08 76-01-20 76-05-06 76-09-16	6.4 8.2 6.3 3.3	6.3 6.4 6.3 6.5	E13 E12 E15 E31	1.7 2.0 2.0 1.2	<.00 <.01 <.01 <.01	.64 1.0 2.0 2.4		
				77-01-12	9.3	6.1			2.5	<.01		
				77-07-24	9.0	5.9	--		2.1	<.01	2.5	
				77-11-08	1.39	7.0	4.6		2.9	<.01	2.4	
				78-03-01	1.04	6.5	9.6		1.9	<.01	1.8	
S 21632	40 54 43	073 06 45	02	72-10-05 73-05-14 73-12-25	3.5 2.9 3.3	5.8 5.8 5.8	-- -- --		1.1 1.1 1.0	<.00 <.00 <.00	<.10 <.10 <.10	
				74-01-29	4.2	5.7	--		8	<.00	<.10	
				74-05-29	5.3	6.0	E15		10	<.00	.28	
				74-10-13	5.0	6.2	E10		1.0	<.00	.24	
				75-01-19	3.2	6.3	E10		1.3	<.00	<.10	
				75-09-25	3.4	6.2	E10		1.0	<.00	<.10	
				76-01-15	7.9	6.3	E17		2.2	<.00	1.0	
				76-05-31	3.5	6.2	E13		1.3	<.01	.07	
				76-09-15	3.4	6.4	7.0		1.1	<.01	<.01	
				77-01-13	3.4	6.1	E11		.9	<.01	.10	
				77-05-02	3.2	5.6	--		.9	<.01	.11	
				77-11-09	9.0	6.4	E16		2.5	<.01	1.5	
				78-02-26	4.4	6.5	5.5		1.1	<.01	.32	
S 22640	40 56 25	073 03 18	01	72-12-02 74-04-24 74-08-17 74-11-30 75-04-10	11.5 20.5 21.0 20.0 20.0	6.9 7.1 7.0 6.9 6.4	5.0 3.9 4.8 7.4 E20	2.5 31 30 37 32	<.00 <.00 <.00 <.00 <.00	2.4 3.2 3.2 2.4 2.5		
				75-12-27	1.80	7.0	5.7		3.6	<.01	2.8	
				76-04-03	21.0	7.0	5.6		35	<.01	3.1	
				76-08-05	22.0	7.2	3.7		37	<.01	3.6	
				76-12-26	22.0	7.0	6.0		38	<.01	2.8	
				77-04-08	18.5	7.2	3.5		35	<.01	3.2	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS Cl)		IRON, TOTAL RECOV- ERABLE (UG/L AS Mn)		MANGA- NESE,
						SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	SULFATE DIS- SOLVED (MG/L AS Cl)	TOTAL RECOV- ERABLE (UG/L AS Fe)	TOTAL RECOV- ERABLE (UG/L AS Mn)	
S 19465	75-01-08	24	5.8	1.6	5.5	5	8.5	2.4	<20	<10
	76-01-20	23	6.6	2.0	6.5	6	8.5	4.2	<10	<10
	76-05-06	25	5.4	2.2	6.7	6	8.0	2.8	<10	<10
	76-09-16	8	2.1	.7	3.3	3	2.0	1.6	<10	<10
	77-01-12	37	6.1	2.6	6.8	6	7.5	2.5	<10	<10
	77-07-24	27	5.8	2.4	7.0	6	8.5	2.2	30	<10
	77-11-08	64	15	4.0	6.1	6	7.0	1.6	60	<10
	78-03-01	35	9.3	3.0	5.2	6	7.0	10	<10	<10
S 21632	72-10-05	16	2.2	1.5	3.0	3	3.0	3.0	<10	<10
	73-09-14	2	1.6	.6	3.0	4	4.5	1.3	<10	<10
	73-12-25	20	1.6	.6	3.2	3	4.0	2.5	<10	<10
	74-01-29	12	2.0	.3	3.6	3	5.0	4.5	<10	<10
	74-05-29	19	2.8	1.2	4.5	4	6.5	2.4	<20	<10
	74-10-13	15	2.7	1.1	4.5	5	5.0	2.2	<20	<10
	75-01-19	9	3.0	.9	3.5	3	5.5	1.6	<20	30
	75-09-25	8	2.7	.6	3.2	3	2.0	2.6	<50	<10
	76-01-15	25	5.8	2.0	6.5	4	6.5	3.6	200	20
	76-05-31	7	2.0	.6	3.3	2.0	2.5	2.1	20	<10
	76-09-15	7	2.5	.7	3.0	3	3.5	1.7	<10	<10
	77-01-13	9	2.0	.6	2.9	3	3.0	.9	60	<10
	77-05-02	9	2.0	.6	2.9	3	4.5	1.2	<10	<10
	77-11-09	41	8.1	1.9	4.9	5	5.0	7.3	70	<10
	78-02-26	12	3.7	1.0	3.3	4	4.0	2.6	<10	20
S 22640	72-12-02	66	16	4.5	9.0	1.9	17	16	<10	<10
	74-04-24	64	14	6.5	11	1.3	20	15	<20	<10
	74-08-17	68	16	6.8	12	1.3	21	18	<20	<10
	74-11-30	64	16	6.4	11	1.3	19	18	<50	<10
	75-04-10	30	13	5.1	11	1.3	20	18	<10	<20
	75-12-27	64	17	6.8	12	1.7	20	22	40	<10
	76-04-03	70	17	6.7	12	1.3	21	23	<10	<10
	76-08-05	65	16	6.5	12	1.4	20	19	20	<10
	76-12-26	67	17	6.6	12	1.3	18	19	<10	<10
	77-04-08	66	16	6.7	12	1.3	18	19	20	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (continued)

LOCAL IDENT- IFI- ER	LAT- I- TUE	LONG- E- TUE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- PHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKAL- INITY (MG/L AS CACO <sub>3</sub> )	SPE- CIFIC CON- CENTRA- TION		NITRO- GEN, NITRATE TOTAL (MG/L AS N)
									UNITS	UNITS	
S 22640	40 56 25	073 03 18	01	77-05-23 77-09-19 78-03-14	210 210 185	6.8 7.0 6.8	9.0 5.9 9.8	36 37 39	<.01 <.01 <.01	3.3 3.2 2.6	
S 23185	40 56 07	073 07 24	02	76-12-20 77-04-05 77-09-26 78-03-01	36 33 40 75	6.1 6.2 6.2 6.4	E15 E11 E12 E12	12 11 8 19	<.01 <.01 <.01 <.01	.07 .12 .17 .70	
S 23255	40 54 53	073 03 03	01	72-12-08 73-03-22 73-07-31 73-11-28 74-04-09	82 47 51 46 53	6.3 6.4 6.4 6.2 6.4	E17 E17 E10 E10 E10	10 11 10 10 11	<.00 .00 .00 .00 .00	.14 .30 .26 .30 .86	
				74-07-02 74-11-04 75-02-24 75-11-17 76-02-15	51 102 94 50 52	6.5 6.6 6.9 6.4 6.6	4.5 4.8 3.2 8.2 5.2	9 17 16 13 13	<.00 .02 .00 .12 .00	.42 .98 .16 .32 .10	
				76-05-19 76-09-16 77-01-13 77-05-05 77-11-02	46 55 64 75 87	6.8 7.0 6.6 6.5 6.8	3.8 2.4 6.4 E10 4.5	15 15 16 20 18	<.01 <.01 <.01 <.01 <.01	.73 .84 .81 .81 .14	
				78-03-01	53	6.6	5.6	14	<.01	.70	
S 24663	40 56 26	073 03 17	01	72-12-04 73-07-18 73-11-29 74-04-17 74-03-10	160 215 210 210 220	6.5 6.8 6.6 7.1 7.1	E12 E12 3.9 4.2 4.2	25 34 32 31 33	<.00 .00 .00 .00 .00	.26 .36 .21 .29 .39	
				74-12-07 75-04-05	205 225	6.9 6.8	9.0 9.1	45 40	<.00	.70 .42	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	CHLO- RUM, TOTAL RECOV- ERABLE (MG/L AS K)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)	POTAS-
								NESE, TOTAL RECOV- ERABLE (UG/L AS FE)
S 22640	77-06-23	67	16	6.6	13	1.3	18	20 <10
	77-09-19	72	17	6.7	14	1.3	18	21 <10
	78-03-14	67	17	6.8	12	1.1	20	22 <10
S 23185	76-12-20	23	2.0	.7	3.5	.3	1.5	<10 <10
	77-04-05	16	3.2	7.5	3.1	.4	3.0	50 <10
	77-09-26	8	2.4	.8	3.4	.4	3.0	<10 <10
S 23255	78-03-01	35	6.9	1.6	4.9	.5	5.5	30 20
	72-12-08	12	3.3	.8	3.9	.6	6.0	2.0 <10
	73-03-22	10	3.1	.9	3.5	.5	6.5	3.5 <10
S 23255	73-07-31	14	3.3	1.0	3.6	.4	4.5	2.1 <10
	73-11-28	14	3.3	.5	3.8	.4	4.5	3.0 <10
	74-04-09	14	3.1	1.1	4.8	.4	5.5	3.0 <50 <10
S 23255	74-07-02	12	3.1	1.2	3.6	.4	7.0	3.0 <20 <10
	74-11-04	34	7.7	2.7	5.3	.6	7.0	9.4 <20 <10
	75-02-24	34	7.0	2.4	5.5	.5	8.0	8.2 <20 <10
S 23255	75-11-17	14	5.0	1.2	3.9	.4	6.5	4.2 100 <10
	76-02-15	13	3.4	1.2	3.9	.4	7.5	3.6 20 <10
	76-05-19	19	4.3	1.2	3.8	.4	4.5	4.8 <10 <10
S 24663	76-09-16	19	3.5	1.1	3.6	.4	3.5	3.3 70 <10
	77-01-13	15	3.5	1.1	3.5	.4	4.0	2.2 <10 <10
	77-05-05	29	6.8	2.1	4.0	.5	6.5	6.5 60 <10
S 24663	77-11-02	41	7.7	2.3	5.0	.5	5.0	9.4 60 <10
	78-03-01	20	4.1	1.2	3.9	.4	4.5	2.8 <10 <10
	78-12-04	62	15	4.8	9.0	1.6	13	21 <10 <10
S 24663	73-07-18	74	16	5.2	11	1.3	15	22 <10 <10
	73-11-29	76	14	6.5	11	1.1	15	24 <10 <10
	74-04-17	68	15	7.1	11	1.1	16	22 <20 <10
S 24663	74-08-10	78	16	7.4	11	1.1	16	24 <20 <10
	74-12-07	81	20	8.0	11	1.1	18	22 <50 <10
	75-04-05	72	18	6.0	10	1.1	13	15 <50 <10

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC COND- DUCT- ANCE (MICRO- MHOS)	PH	(UNITS) AS CO <sub>2</sub> )	CARBON DIOXIDE DIS- SOLVED (MG/L AS CACO <sub>3</sub> )	ALKALI- LINITY (MG/L AS)	NITRITE TOTAL (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)
S 24663	40 56 26	073 03 17	01	75-12-20	216	6.5	E19	38	.03	3.6	
				76-04-03	215	7.0	5.7	36	<.01	4.3	
				76-08-13	210	7.4	3.3	53	<.01	4.4	
				76-12-26	180	6.9	6.2	31	<.01	2.3	
				77-04-09	215	7.3	3.2	40	<.01	4.0	
				77-06-23	230	7.0	7.4	47	<.01	4.3	
				77-09-25	225	6.5	E21	42	<.01	4.0	
				78-03-02	207	6.9	7.6	38	<.01	3.8	
S 27784	40 53 36	073 07 40	01	73-08-23	60	6.2	E10	10	<.00	1.0	
				73-10-22	54	6.3	8.0	10	<.00	1.0	
				74-01-29	58	6.0	E15	10	<.00	.58	
				74-05-20	58	6.2	E11	11	<.02	.58	
				74-09-15	66	6.6	3.1	9	<.00	1.4	
				75-01-12	46	6.9	2.4	12	<.00	1.0	
				75-09-25	63	6.4	7.6	12	<.00	1.2	
				76-01-15	65	6.4	9.5	15	<.00	1.4	
				76-05-04	70	6.5	9.6	19	<.01	2.0	
				76-09-16	68	6.6	6.0	15	<.01	2.1	
				77-01-11	71	6.4	8.9	14	<.01	2.2	
				77-11-02	78	6.5	7.0	14	<.01	2.7	
				78-02-26	81	6.5	6.5	13	<.01	3.1	
S 29411	40 54 45	073 06 48	01	72-10-09	37	6.0	E12	8	<.10		
				73-05-14	29	5.7	---	10	<.10		
				73-09-11	35	5.7	---	9	<.10		
				74-01-29	40	5.6	---	7	<.10		
				74-05-29	34	6.3	5.6	7	<.10		
				74-10-09	36	6.2	E10	10	<.10		
				75-01-07	23	6.7	3.2	10	<.10		
				75-11-03	36	6.1	E12	10	<.10		
				76-01-25	36	6.2	E11	11	<.10		
				76-05-06	45	6.3	E12	16	<.01	.35	
				77-01-16	66	6.3	E14	17	<.01	.94	
				77-06-21	29	5.4	---	10	<.01	.01	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	CALCIUM			MAGNE- SIUM,			POTAS- SIUM,			IRON, MANGA- NASE,		
		HARD- NESS (MG/L AS CACO <sub>3</sub> )	TOTAL RECOV- ERABLE (MG/L AS CA)	AS MG)	TOTAL RECOV- ERABLE (MG/L AS NA)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NASE, TOTAL RECOV- ERABLE (UG/L AS MN)			
S 24663	75-12-20	70	16	7.2	10	1.1	15	25	<50	<10	<10	<10	<10
	76-04-03	78	18	7.6	1.1	1.1	16	29	<10	<10	<10	<10	<10
	76-08-13	83	19	8.8	1.3	1.2	18	19	<10	<10	<10	<10	<10
	76-12-26	60	14	5.2	8.3	1.9	10	17	100	100	100	100	100
	77-04-09	80	16	7.6	1.1	1.2	15	23	<10	<10	<10	<10	<10
	77-06-23	79	22	8.4	12	1.2	18	24	30	10	10	10	10
	77-09-25	77	18	7.8	1.1	1.2	15	23	50	<10	<10	<10	<10
	78-03-02	51	15	6.8	1.0	1.1	16	18	<10	<10	<10	<10	<10
S 27784	73-08-23	20	3.1	8	4.5	5	6.0	3.0	<10	<10	<10	<10	<10
	73-10-22	16	3.0	1.2	4.6	6	4.5	3.0	<10	<10	<10	<10	<10
	74-01-29	11	3.1	1.8	4.5	5	4.5	3.0	<10	<10	<10	<10	<10
	74-05-20	17	3.5	1.2	4.5	4	6.0	2.8	<20	<20	<20	<20	20
	74-09-15	17	4.2	1.6	5.0	5	5.5	3.4	<20	<20	<20	<20	<20
	75-01-12	18	4.3	1.1	5.0	4	7.0	2.0	<20	<20	<20	<20	<20
	75-09-25	17	5.1	1.7	5.0	5	4.5	3.4	<50	<50	<50	<50	<50
	76-01-15	20	4.6	1.6	5.0	5	5.5	3.2	<50	<50	<50	<50	<50
	76-05-04	25	4.6	1.6	5.3	5	5.0	3.1	<10	<10	<10	<10	<10
	76-09-16	15	4.5	1.5	5.4	5	6.0	2.1	<10	<10	<10	<10	<10
	77-01-11	26	4.9	1.7	4.8	5	6.0	1.7	50	<10	<10	<10	<10
	77-11-02	35	5.5	2.0	5.3	5	6.0	3.3	30	<10	<10	<10	<10
	78-02-26	28	5.6	2.0	5.4	5	7.5	3.1	<10	<10	<10	<10	<10
S 29411	72-10-09	20	1.7	7	3.2	4	2.5	3.0	<10	<10	<10	<10	<10
	73-05-14	2	1.6	6	3.0	4	3.5	2.0	<10	<10	<10	<10	<10
	73-09-11	14	1.3	5	3.4	3	4.0	2.4	<10	<10	<10	<10	<10
	74-01-29	4	1.6	2	3.3	3	4.5	4.0	<10	<10	<10	<10	<10
	74-05-29	8	1.7	7	3.2	3	3.5	2.4	<20	<20	<20	<20	<20
	74-10-09	14	1.7	6	3.0	3	5.0	1.0	<20	<20	<20	<20	<20
	75-01-07	12	2.1	6	3.0	3	4.5	2	<50	<50	<50	<50	<50
	75-11-03	8	3.8	8	3.1	4	4.0	3.6	<50	<50	<50	<50	<50
	76-01-25	9	2.3	7	3.3	4	2.5	3.2	<10	<10	<10	<10	<10
	76-05-06	15	4.2	1.0	3.8	4	3.5	1.8	<10	<10	<10	<10	<10
	77-01-16	23	5.7	1.6	3.9	4	4.5	4.8	50	10	10	10	10
	77-06-21	9	2.0	.7	2.8	.3	2.5	1.8	<10	<10	<10	<10	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the  
Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- MHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
									SPE- CIFIC COND-	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
S 27411	40 54 45	073 06 49	01	77-11-03 78-02-27	47 35	6.3 6.0	E11 E15	14 <.01	<.01 <.01	.44 .05
S 29732	40 53 36	073 07 40	02	73-05-22 73-09-12 74-01-16 74-05-20 74-09-15	28 37 32 35 34	5.6 6.0 5.7 5.8 5.9	E11 E14 --- --- ---	8 7 10 6 4	<.00 <.00 <.00 <.00 <.00	<.10 <.10 <.10 <.10 <.10
				75-01-19 75-09-29 76-01-20 76-05-04 76-09-15	24 34 33 34 32	6.0 6.0 5.8 6.0 6.3	E12 E14 --- 9.5 8.0	8 9 11 6 10	<.00 <.00 <.00 <.01 <.01	<.10 <.10 <.10 .03 .05
				77-01-16 77-11-06 78-02-28	34 33 34	6.2 6.0 5.7	E10 E16 ---	10 10 10	<.01 <.01 <.01	<.01 .05 .09
S 32180	40 55 12	073 01 05	01	72-10-17 73-06-11 73-10-09 74-02-12 74-11-21	110 53 79 85 52	6.1 6.6 5.8 6.7 7.0	8.8 4.8 --- 3.2 1.9	7 12 10 10 12	<.00 .00 <.00 .00 .00	.20 .24 .00 .00 .53
				75-03-03 75-11-09 76-02-20 76-05-16 76-09-15	57 55 60 63 57	6.6 6.3 6.5 6.4 6.6	3.6 9.6 7.0 8.9 6.4	9 12 14 14 16	<.00 .05 .00 <.01 .01	.24 .68 <.10 .78 .69
				77-01-12 77-07-24 77-09-06 78-02-26	73 45 132 65	6.6 6.2 6.4 6.4	9.2 E12 E16 E10	23 12 26 16	<.01 <.01 <.01 <.01	.89 .34 .21 .99
S 33500	40 53 36	073 07 36	01	73-05-22	44	5.9	---	11	.00	.86

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE-			POTAS-			IRON,			MANGA-	
			CALCIUM TOTAL	SODIUM, TOTAL	SILICON, TOTAL	CHLOR- IDE, TOTAL	SULFATE DIS- SOLVED	IRON, TOTAL	TOTAL RECOV- ERABLE	SULFATE DIS- SOLVED	IRON, TOTAL	TOTAL RECOV- ERABLE	MANGANESE, AS Mn)
S 29411	77-11-03	30	3.8	1.3	3.6	4	2.5	4.0	<10	<10	<10	<10	
	78-02-27	19	2.2	.7	3.0	.4	2.5	1.8	<10	<10	<10	<10	
S 29732	73-05-22	4	1.6	.4	3.0	3	4.5	3.5	<10	<10	<10	<10	
	73-09-12	16	1.1	.5	3.2	3	4.0	4.5	<10	<10	<10	<10	
	74-01-16	10	2.0	.4	3.2	3	4.0	3.0	<10	<10	<10	<10	
	74-05-20	11	1.7	.6	3.3	3	6.0	2.6	<20	<20	<10	<10	
	74-09-15	17	1.6	.6	3.2	3	3.5	2.8	<20	<20	<10	<10	
	75-01-19	10	1.8	.6	3.2	3	4.0	8	100	100	<10	<10	
	75-09-29	6	2.1	.7	3.3	3	1.5	2.4	80	80	<10	<10	
	76-01-20	9	2.8	.6	3.2	3	3.5	3.2	40	40	<10	<10	
	76-05-04	13	1.8	.7	3.3	3	3.0	3.0	60	60	<10	<10	
	76-09-15	8	1.9	.6	3.3	3	2.0	1.5	40	40	<10	<10	
	77-01-16	10	2.0	.7	3.0	3	3.0	1.3	110	10	<10	<10	
	77-11-06	18	1.9	.6	3.2	3	2.0	2.1	60	60	<10	<10	
	78-02-28	15	2.1	.7	3.1	3	3.0	1.9	60	60	<10	<10	
S 32480	72-10-17	20	3.2	.9	4.0	4	4.5	3.0	<10	<10	<10	<10	
	73-06-11	10	3.8	.9	4.0	4	5.0	3.5	<10	<10	<10	<10	
	73-10-09	18	5.2	1.2	5.9	8	8.0	7.5	<10	<10	<10	<10	
	74-02-12	20	5.8	.9	6.5	7	9.5	7.7	<10	<10	<10	<10	
	74-11-21	13	3.2	.9	4.4	4	5.0	2.2	<20	<20	<10	<10	
	75-03-03	18	3.8	1.0	4.5	3	6.0	2.2	<20	<20	<10	<10	
	75-11-09	16	3.8	1.1	4.8	4	6.0	4.4	40	40	<10	<10	
	76-02-20	14	3.7	1.0	4.8	4	8.0	4.4	40	40	<10	<10	
	76-05-16	14	4.1	1.1	4.9	4	8.0	2.7	<10	<10	<10	<10	
	76-09-15	16	4.8	1.0	4.6	4	6.0	3.0	<10	<10	<10	<10	
	77-01-12	30	8.0	1.6	5.0	4	4.5	2.3	100	100	<10	<10	
	77-07-24	12	3.2	.8	3.8	3	4.5	1.7	30	30	<10	<10	
	77-09-06	55	14	4.6	5.8	8	7.0	24	60	60	<10	<10	
	78-02-26	29	4.3	1.2	5.4	4	6.5	3.4	<10	<10	<10	<10	
S 33500	73-05-22	14	3.4	.9	4.0	5	6.0	2.5	<10	<10	<10	<10	

Table 6.—Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENTIFICATION	LATITUDE	LONGITUDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC CONDUCTANCE	PH (MICRO-MHOS)	(UNITS)	CARBON DIOXIDE DIS-SOLVED (MG/L AS CO <sub>2</sub> )	ALKALINITY (MG/L AS CACO <sub>3</sub> )	NITROGEN, NITRATE TOTAL (MG/L AS N)		
										NITRATE TOTAL (MG/L AS N)		
S 33500	40 53 36	073 07 36	01	73-09-12 74-01-16	34 30	5.8 5.6	— —	— —	8	00	< 10	< 10
				74-05-20 74-09-23 75-01-13	33 37 22	5.9 5.8 6.0	— — E12	— — 8	6 5 8	00 00 00	< 10 < 10 < 10	< 10
				75-09-23 76-01-21 76-05-06 76-09-20 77-01-13	32 31 32 41 32	6.1 6.0 6.1 6.8 6.0	E10 E17 E17 3.3 E17	8 11 14 13 11	00 00 01 01 01	< 10 < 10 05 61 < 01	< 10	
				77-07-24 77-11-07 78-03-01	44 52 31	6.0 6.1 6.0	E20 E16 E15	13 13 10	< 01 < 01 < 01	73 83 04		
S 34007	40 55 12	073 01 05	02	72-10-17 73-06-11 73-10-09 74-02-19 75-03-04	81 53 60 74 45	6.1 6.2 6.5 6.7 6.6	E10 E14 — 4.4 4.0	8 14 12 14 10	00 00 00 00 00	> 20 > 20 < 10 1.0 < 10		
				75-11-09 76-02-23 76-05-16 76-09-22 77-01-11	46 44 49 78 107	6.1 6.8 6.5 6.8 7.2	E15 2.3 6.5 5.0 2.8	12 9 13 20 28	04 00 01 01 01	38 < 10 36 1.5 1.3		
				77-11-02 78-03-02	93 85	6.5 6.7	E10 5.1	21 16	< 01 < 01	2.2 2.0		
S 34300	40 56 15	073 05 15	01	73-07-18 73-11-28	49 50	6.0 5.9	E23 —	15 —	00 00	< 10 < 10		
				74-04-18 74-11-28 75-04-10	54 52 55	6.3 6.3 6.3	E11 E11 E11	14 15 14	00 00 00	< 10 < 10 < 10		
				76-01-02 76-04-08 76-08-06	56 54 52	6.3 6.3 6.5	E11 9.6 8.6	15 12 17	00 < 01 < 01	24 33 33		

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	MAGNE- SIUM			SODIUM			POTAS-			IRON,		
			CALCIUM TOTAL	RECOV- ERABLE (MG/L AS CA)	RECOV- ERABLE (MG/L AS MG)	TOTAL	RECOV- ERABLE (MG/L AS NA)	TOTAL	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	POTAS- SIUM, TOTAL	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN)	
S 33500	73-09-12	12	1.3	1.5	3.2	3.2	3	3	4.0	3.5	<10	<10	<10	<10
	74-01-16	20	1.4	1.4	3.2	3.1	3	3.5	3.0	3.0	<10	<10	<10	<10
	74-05-20	12	1.5	1.6	2.7	2.7	4	4.5	2.0	2.6	<20	<20	<10	<10
	74-09-23	10	1.2	1.2	3.1	3.1	3	4.0	1.6	2.0	<20	<20	<10	<10
	75-01-13	12	1.6	1.6	3.1	3.1	3	4.0	1.6	2.0	<20	<20	<10	<10
	75-09-23	6	1.8	1.6	3.2	3.2	3	2.0	4	4	<50	<50	<10	<10
	76-01-21	8	2.0	1.6	3.2	3.2	3	2.0	1.5	2.4	<10	<10	<10	<10
	76-05-06	8	3.7	3.7	3.2	3.2	3	2.0	1.6	1.6	<10	<10	<10	<10
	76-09-20	11	3.1	1.9	3.7	3.7	4	3.5	1.1	50	<10	<10	<10	<10
	77-01-13	8	1.7	1.6	2.8	2.8	3	3.0	1.3	1.3	<10	<10	<10	<10
	77-07-24	19	2.9	1.0	3.4	3.4	4	1.5	1.5	80	<10	<10	<10	<10
	77-11-07	30	4.0	1.9	3.4	3.4	3	3.5	3.1	40	<10	<10	<10	<10
	78-03-01	17	1.7	1.6	3.1	3.1	3	3.0	1.5	100	<10	<10	<10	<10
S 34007	72-10-17	60	3.5	3.8	3.5	3.5	4	4.0	4.0	4.5	<10	<10	<10	<10
	73-06-11	16	3.8	1.9	4.0	4.0	4	6.0	6.0	3.0	<10	<10	<10	<10
	73-10-09	10	4.5	1.7	4.8	4.8	5	8.0	8.0	4.0	<10	<10	<10	<10
	74-02-19	40	5.2	1.9	5.2	5.2	4	8.0	8.0	4.2	<10	<10	<10	<10
	75-03-04	10	3.5	1.8	4.3	4.3	3	5.0	5.0	1.2	<20	<20	<10	<10
	75-11-09	15	6.4	1.0	4.0	4.0	4	6.5	6.5	3.8	100	<10	<10	<10
	76-02-23	9	3.1	0.8	3.9	3.9	3	5.5	5.5	3.6	80	<10	<10	<10
	76-05-16	13	3.3	1.9	4.0	4.0	3	5.0	5.0	1.8	<10	<10	<10	<10
	76-09-22	24	6.8	1.7	5.6	5.6	4	6.5	6.5	3.4	20	20	<10	<10
	77-01-11	47	13	2.7	4.7	4.7	5	6.0	6.0	9.6	170	<10	<10	<10
	77-11-02	30	7.6	2.0	6.5	6.5	5	7.0	4.3	50	<10	<10	<10	<10
	78-03-02	28	6.1	1.6	5.7	5.7	4	8.0	8.0	3.5	70	<10	<10	<10
S 34300	73-07-18	20	3.1	1.8	4.5	4.5	5	5.5	5.5	2.3	<10	<10	<10	<10
	73-11-28	6	3.0	1.5	4.5	4.5	4	4.0	4.0	2.2	<10	<10	<10	<10
	74-04-18	7	4.9	1.1	4.3	4.3	5	8.0	8.0	—	<50	<10	<10	<10
	74-11-28	18	3.2	1.1	4.5	4.5	5	7.0	7.0	3.2	<50	<10	<10	<10
	75-04-10	12	3.0	1.9	4.0	4.0	6	5.5	5.5	2	<10	30	<10	<10
	76-01-02	17	3.7	1.1	4.5	4.5	4	6.0	6.0	3.6	70	<10	<10	<10
	76-04-08	12	3.7	1.1	4.3	4.3	5	4.0	4.0	9	40	<10	<10	<10
	76-08-06	21	3.5	1.1	4.3	4.3	5	2.5	2.5	1.8	<10	<10	<10	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- MHDS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
S 34300 40 56 15	073 05 15	01	76-12-19	51	6.2	E18	18	< 0.1	32	
			77-04-09	53	6.7	5.7	18	< 0.1	37	
			77-10-02	49	6.1	E19	15	< 0.1	31	
			78-02-16	35	6.0	E18	11	< 0.1	07	
S 34301 40 56 13	073 05 15	01	73-07-18	29	5.5	--	7	0.0	< 10	
			73-12-01	34	5.9	--	6	0.0	< 10	
			74-04-17	31	6.3	5.6	7	0.0	< 10	
			74-08-14	28	6.0	7.9	5	0.1	< 10	
			74-12-07	24	6.4	4.4	7	0.0	< 10	
			75-04-17	30	6.6	1.6	4	0.0	< 10	
			75-12-26	30	5.9	--	10	0.0	< 10	
			76-04-03	34	6.2	5.0	5	< 0.1	03	
			76-08-13	30	6.6	4.0	10	< 0.1	03	
			76-12-16	29	6.1	E11	9	< 0.1	17	
			77-04-20	31	6.3	8.0	10	< 0.1	< 0.1	
			77-06-25	27	6.0	E19	12	< 0.1	03	
			77-09-27	28	6.3	6.4	8	< 0.1	< 0.1	
			78-01-26	26	5.4	--	10	< 0.1	04	
S 35446 40 53 36	073 07 36	02	73-05-22	29	5.9	--	11	0.0	< 10	
			73-09-12	37	6.2	E10	10	0.0	< 10	
			74-01-16	49	5.8	--	12	0.0	56	
			74-05-20	34	6.0	E12	8	0.0	< 10	
			74-10-08	48	6.7	3.2	10	0.0	42	
			75-01-27	35	6.6	3.6	9	0.0	34	
			75-09-24	43	6.2	E14	11	0.0	28	
			76-02-03	44	6.7	4.4	14	0.0	< 10	
			76-05-06	36	6.4	E10	16	< 0.1	22	
			76-09-20	42	6.6	4.8	12	< 0.1	54	
			77-01-11	43	6.5	7.5	15	< 0.1	74	
			77-05-05	45	6.3	E10	13	< 0.1	77	
			77-11-03	47	6.5	6.0	12	< 0.1	92	
			78-02-27	46	6.4	7.6	6	< 0.1	85	

LOCAL IDENT- I- FTER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS MG)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	CHLOR- IDE, TOTAL RECOV- ERABLE (MG/L AS K)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	SULFATE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)
							CHLOR- IDE, RECOV- ERABLE (MG/L AS CL)	SULFATE, DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)
S 34300	76-12-19	23	4.0	1.2	4.6	4	3.0	1.3	<10	<10
	77-04-09	18	3.3	1.1	4.2	4	4.5	1.4	<10	<10
	77-10-02	15	5.6	1.1	4.5	5	5.0	2.0	150	20
	78-02-16	13	2.3	0.8	3.4	3	4.5	2.2	30	20
S 34301	73-07-18	10	1.2	4	3.1	3	4.5	2.5	<10	<10
	73-12-01	18	1.8	0.5	3.0	3	3.5	2.2	<10	<10
	74-04-17	6	1.3	0.6	2.8	3	7.5	-	<50	<10
	74-08-14	5	1.3	0.6	2.8	3	3.5	1.2	<50	<10
	74-12-07	9	1.3	0.5	2.4	2	4.5	1.2	<20	10
	75-04-17	9	1.2	5	2.7	3	4.5	1.2	<20	<10
	75-12-26	8	3.9	0.6	3.0	3	5.0	2.8	<50	10
	76-04-03	5	1.6	0.6	3.0	3	4.0	1.2	<10	<10
	76-08-13	18	1.5	0.6	2.9	34	2.5	1.5	20	<10
	76-12-16	14	1.6	0.6	3.2	3	2.0	1.0	<10	<10
	77-04-20	10	1.5	0.6	2.9	3	3.5	1.2	<10	<10
	77-06-25	17	1.5	0.6	2.9	3	3.5	1.3	<10	<10
	77-09-27	7	1.9	0.6	3.1	3	4.0	1.4	<10	20
	78-01-26	7	3.2	0.6	3.3	3	3.5	1.2	<10	<10
S 35446	73-05-22	8	2.1	5	3.0	3	4.5	1.8	<10	<10
	73-09-12	24	1.6	0.5	3.4	3	3.5	1.7	<10	<10
	74-01-16	24	3.6	0.9	4.2	4	5.0	4.0	<10	<10
	74-05-20	14	1.8	0.7	3.3	3	5.5	2.8	<20	<10
	74-10-08	16	2.5	0.9	3.5	3	7.0	2.0	20	<10
	75-01-27	15	2.6	0.8	3.0	2	7.5	6	<50	<10
	75-09-24	10	3.6	1.0	3.8	3	3.0	2.4	<50	<10
	76-02-03	12	2.8	0.9	3.6	3	3.0	1.4	<10	<10
	76-05-06	13	3.7	0.8	3.3	3	3.0	1.9	<10	<10
	76-09-20	12	3.0	0.9	3.7	3	3.5	1.3	60	<10
	77-01-11	16	3.0	0.9	3.3	4	2.5	9	50	<10
	77-05-05	14	3.8	1.0	3.4	4	5.0	1.3	<10	<10
	77-11-03	24	3.2	1.1	3.8	4	3.5	2.0	<10	<10
	78-02-27	18	3.1	1.0	3.7	4	1.4	1.4	<10	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- IFI- ER	LAT- I- TUDE	LONG- I- TUDE	SEQ. NO.	DATE OF SAMPLE	DUCT- ANCE (MICRO- NHOS)	PH (UNITS)	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKAL- INITY (MG/L AS) (CACO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
									SPECIFIC COND. (MG/L NHOS)	NITRO- GEN, NITRITE TOTAL (MG/L AS N)
S 36166	40 54 45	073 06 38	01	72-10-10	4.4	5.7	--	10	0.0	< 10
				73-05-14	3.0	5.7	--	10	0.0	< 10
				73-09-11	3.6	5.7	--	8	0.0	< 10
				74-01-29	7.3	5.7	--	15	0.0	5.6
				74-05-29	6.8	6.3	9.6	12	0.0	6.8
				74-10-08	3.7	6.4	5.7	9	0.0	< 10
				75-01-12	2.7	6.4	6.3	10	0.0	< 10
				75-09-24	3.6	6.2	E10	10	0.0	< 10
				76-01-27	3.4	6.1	E12	10	0.0	< 10
				76-05-05	8.5	6.2	E20	20	< 0.1	1.8
				76-09-19	3.3	6.2	1.2	12	< 0.1	0.9
				77-01-11	3.5	6.0	E20	13	< 0.1	1.8
				77-05-04	3.3	5.9	--	9	< 0.1	1.2
				77-06-21	2.9	5.4	--	10	< 0.1	< 0.1
				77-11-02	3.4	6.0	E17	11	< 0.1	1.3
				78-02-28	11.2	6.4	E12	20	< 0.1	2.0
S 36459	40 54 09	073 06 14	01	72-12-09	4.5	6.0	E19	12	0.0	< 10
				73-06-17	3.5	5.9	--	10	0.0	< 10
				73-09-10	3.8	6.5	6.0	12	0.0	< 10
				74-01-17	4.0	5.8	--	10	0.0	< 10
				74-05-19	4.9	6.5	6.5	13	0.0	< 10
				75-01-07	2.9	6.6	4.4	11	0.0	< 10
				75-11-03	4.3	6.4	8.2	13	0.1	4.0
				76-04-05	5.3	6.7	5.4	17	< 0.1	5.6
				76-05-16	5.1	6.8	3.5	14	< 0.1	3.3
				76-09-16	10.0	6.8	7.6	30	< 0.1	1.1
				77-01-11	5.1	6.3	E12	15	< 0.1	8.3
				77-07-24	4.5	6.0	E19	12	< 0.1	6.2
				77-11-08	5.1	6.1	E18	15	< 0.1	7.3
				78-02-26	5.1	6.3	E11	14	< 0.1	8.0
S 37301	40 54 09	073 06 14	02	72-12-08	3.5	6.1	E15	12	0.0	< 10

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	MANGA-			POTAS-			IRON,		
					SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS K)	SULFATE DIS- SOLVED (MG/L AS SO <sub>4</sub> )	IRON, TOTAL RECOV- ERABLE (UG/L AS Fe)	NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)				
S 36166	72-10-10	20	2.0	1.9	4.0	4	3.0	3.0	<10	<10			
	73-05-14	8	7	7	3.2	3	4.0	1.5	<10	<10			
	73-09-11	14	1.5	5	3.5	3	4.5	1.8	<10	<10			
	74-01-29	30	4.0	9	6.0	5	7.5	3.0	<10	<10			
	74-05-29	12	3.9	1.5	5.5	5	7.5	2.4	<20	<10			
	74-10-08	10	1.6	7	3.2	3	3.5	1.8	<20	<10			
	75-01-12	6	2.0	6	3.5	3	5.5	2.0	<20	<10			
	75-09-24	8	2.8	7	3.4	3	1.5	2.6	<50	<10			
	76-01-27	10	2.2	7	3.4	2	4.5	1.6	30	<10			
	76-05-05	21	5.4	2.0	6.4	5	7.0	2.8	80	20			
	76-09-19	11	1.9	7	3.3	3	3.0	1.0	<10	<10			
	77-01-11	23	2.2	7	3.1	3	2.0	1.0	30	<10			
	77-05-04	8	2.1	7	3.0	3	3.0	1.2	<10	<10			
	77-06-21	9	2.0	7	2.8	3	2.5	1.8	<10	<10			
	77-11-02	21	2.0	7	3.3	3	3.0	1.5	40	<10			
	78-02-28	42	11	3.3	5.3	6	7.0	13	90	<10			
S 36459	72-12-09	42	2.3	8	3.5	1.2	4.0	3.0	<10	<10			
	73-06-17	6	2.0	5	3.5	4	4.0	1.8	<10	<10			
	73-09-10	16	2.0	5	3.0	4	4.5	1.0	<10	<10			
	74-01-17	22	1.9	4	3.7	3	4.5	1.5	<10	<10			
	74-05-19	13	3.6	8	4.0	4	4.5	1.6	<20	<10			
	75-01-07	12	2.5	8	3.5	3	4.0	2	<50	<10			
	75-11-03	13	2.8	1.0	4.1	4	4.0	2.0	20	<10			
	76-04-05	6	4.0	1.0	4.3	4	4.0	1.1	30	<10			
	76-05-16	14	2.9	1.0	4.4	4	6.0	1.5	40	<10			
	76-09-16	45	12	2.8	4.6	6	5.0	7.8	50	<10			
	77-01-11	16	2.8	1.0	4.1	4	4.5	1.7	50	<10			
	77-07-24	11	2.9	1.0	4.1	4	3.0	1.0	50	<10			
	77-11-08	28	3.5	1.2	4.6	5	3.5	1.3	<10	<10			
	78-02-26	19	3.1	1.1	4.5	4	5.5	1.1	<10	<10			
S 37301	72-12-08	24	2.2	8	3.4	7	3.5	3.5	<10	<10			

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- IFIER	LAT- TDE	LONG- TDE	SEQ. NO.	DATE OF SAMPLE	SPECIFIC COND- DUCT- ANCE (MICRO- MHOS)	PH	(UNITS) AS CO <sub>2</sub> )	CARBON DIOXIDE DISSOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- LINITY (MG/L AS CO <sub>3</sub> )	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
										NITRO- GEN, NITRITE TOTAL (MG/L AS N)	
S 37301	40 54 09	073 06 14	02	73-05-14 73-09-10	37 39	6.4 6.2	E10	7.0 10	11 10	.00 .00	<.10 <.10
				74-03-12 74-05-19 74-09-15	40 37 42	6.6 6.3 6.3	--	7.2 5.8 5.8	9 7 7	.00 .02 .02	<.10 <.10 <.16
				74-10-08	43	6.6		4.8	12	.03	<.10
				75-01-06 75-09-24 76-01-15 76-05-05	27 36 38 38	6.3 6.3 6.4 6.4		9.6 8.8 8.2 8.2	12 11 10 10	.00 .00 .00 .00	<.10 <.10 <.10 <.10
				76-09-15 77-01-11 77-07-25 77-11-07 78-02-27	38 39 37 69 49	6.5 6.2 5.7 6.4 6.2	E13 E13 -- E14 E16	6.5 6.5 -- 6.4 6.2	13 13 9 23 16	.01 .01 .01 .01 .01	<.01 <.01 <.01 .93 .56
				77-02-09 77-06-07 77-12-06 78-03-22	26 24 25 23	6.0 5.8 5.9 6.2		7.9 8.9 -- 5.0	5 14 6 5	.00 .00 .00 .00	<.10 <.10 <.10 <.10
				77-10-15 75-01-27 76-02-29 76-05-19 76-10-12	25 20 23 24 65	6.0 6.3 6.2 6.3 6.7		6.4 3.2 5.0 6.7 4.8	4 4 5 8 15	.00 .00 .00 .01 .01	<.10 <.10 <.10 .13 .05
				77-12-27 73-05-29 73-11-26 74-01-24 74-06-26	25 44 26 27 25	6.0 6.4 5.7 5.3 5.9		7.9 8.9 -- -- --	5 14 6 6 4	.00 .00 .00 .00 .00	<.10 <.10 <.10 <.10 <.10
				77-02-09 77-06-07 77-12-06 78-03-22	26 24 25 23	5.8 5.8 6.0 6.4		-- -- E11 4.4	7 9 7 7	.01 .01 .01 .01	.10 .10 .08 .09
				75-08-13 77-05-28 77-09-18 78-01-31	33 30 32 35	6.3 5.5 6.3 6.3		5.6 -- 7.2 8.0	9 10 9 10	.00 .01 .01 .03	<.10 .05 .04 .03
S 38916	40 54 18	073 06 49	02								

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS Mg)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS Na)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS K)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS Cl)	IRON, TOTAL RECOV- ERABLE (UG/L AS Fe)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)
S 37301	73-05-14	18	1.8	0.8	3.5	0.7	5.0	2.5	<10
	73-09-10	12	2.5	1.7	3.0	0.4	5.5	3.0	<10
	74-03-12	10	2.1	1.5	3.4	0.4	3.5	3.7	<10
	74-05-19	9	1.9	0.8	3.4	0.4	4.0	1.8	<10
	74-09-15	14	2.3	1.9	2.4	0.4	2.5	5.8	<20
	74-10-08	17	2.1	0.8	3.5	0.4	4.0	1.2	<20
	75-01-06	10	2.1	0.7	3.0	0.3	4.0	2	<50
	75-09-24	8	3.7	0.9	3.4	0.4	1.5	3.0	<10
	76-01-15	16	2.3	0.8	3.3	0.2	3.5	4.2	20
	76-05-05	24	2.7	0.9	3.5	0.4	3.5	2.9	<10
	76-09-15	14	2.2	0.8	3.1	0.4	2.0	2.0	<10
	77-01-11	11	2.1	0.8	3.1	0.4	2.5	1.4	<10
	77-07-25	7	2.2	0.8	3.2	0.4	1.5	1.8	40
	77-11-07	46	6.3	1.4	4.7	0.5	4.0	2.5	<10
	78-02-27	24	3.8	1.1	4.1	0.4	5.0	1.3	60
S 38784	72-12-27	2	1.0	2.5	2.5	0.2	3.0	2.0	<10
	73-05-29	14	4.6	1.4	3.1	0.2	3.5	1.0	<10
	73-11-26	2	1.0	1.1	2.7	0.9	4.0	2.0	<10
	74-01-24	2	1.0	1.0	2.7	0.3	3.0	1.5	<10
	74-06-26	4	4	0	2.6	0.3	3.5	7	<20
	74-10-15	4	9	2	2.5	2	2.5	5.4	<20
	75-01-27	5	0.8	3	2.0	1	1.5	1.8	<50
	76-02-29	5	1.6	3	2.6	2	5.5	2.4	30
	76-05-19	8	1.7	3	2.6	2	3.5	3.0	<10
	76-10-12	41	6.2	1.5	3.5	0.4	5.5	5.4	80
	77-02-09	5	1.3	0.3	2.6	0.2	1.0	9	20
	77-06-07	18	1.2	0.3	2.2	0.2	1.5	1.1	<10
	77-12-06	6	1.1	0.3	2.5	0.2	2.0	1.0	50
	78-03-22	8	1.4	0.3	2.6	0.2	2.5	7	<10
S 38916	75-08-13	7	6.6	0.9	3.0	0.4	6.0	3.2	<10
	77-05-28	12	1.8	0.7	2.7	0.3	2.5	1.8	<10
	77-09-18	13	1.7	0.7	2.9	0.3	2.5	1.6	30
	78-01-31	12	1.8	0.7	3.0	0.3	2.2	2.2	<10

Table 6.--Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the Town of Brookhaven (Continued)

LOCAL IDENT- IFI- ER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	SPECI- CIFIC COND- DUCT- ANCE (MICRO- Mhos)	PH	CARBON DIoxide DIS- SOLVED (mg/l as CO <sub>2</sub> )	ALKALI- LINITY (mg/l as Caco <sub>3</sub> )	NITRO- GEN, NITRITE TOTAL (mg/l as N)		
									UNITS	AS CO <sub>2</sub> )	AS N)
S 38916	40 54 18	073 06 49	02	78-06-13	32	6.1	E11	9	<.01	.04	
S 40980	40 54 18	073 06 49	01	72-02-02	26	6.2	8.1	7	--	--	
				73-08-11	28	5.7	--	6	.00	<.10	
				73-11-28	21	5.8	--	5	.00	<.10	
				74-04-17	27	6.2	7.0	7	.00	<.10	
				74-08-10	26	6.5	2.0	4	.00	<.10	
				74-11-28	31	6.3	5.6	7	.00	<.10	
				75-04-04	30	5.9	--	8	.00	<.10	
				75-12-18	26	6.0	E12	8	.00	<.10	
				76-04-06	26	6.8	4.0	16	<.01	.02	
				76-08-05	26	6.6	3.6	9	<.01	<.01	
				76-12-17	26	6.3	8.0	10	<.01	<.01	
				77-04-13	26	6.8	2.0	8	<.01	.06	
				77-08-26	26	6.3	6.4	8	<.01	<.01	
				78-01-26	27	5.7	--	8	<.01	.05	
S 43117	40 52 56	073 04 56	03	74-02-26	167	5.9	--	28	.00	3.9	
				75-01-27	17	6.6	1.6	4	.00	<.10	
				75-11-16	21	6.3	4.8	6	.00	<.10	
				76-02-17	22	6.0	7.9	5	.00	<.10	
				76-05-19	22	6.3	6.4	8	<.01	.05	
				76-10-12	25	6.1	E10	8	<.01	.08	
				77-06-07	25	6.2	9.0	9	<.01	.06	
				77-11-15	21	5.6	--	8	<.01	.05	
				78-03-22	29	6.8	2.5	10	<.01	.09	
S 46928	40 54 55	073 02 58	01	73-07-18	45	7.2	1.7	14	--	--	
				74-11-05	50	6.7	4.8	15	.00	<.10	
				75-03-02	47	6.8	3.5	14	.00	<.10	
				75-11-09	47	6.5	9.0	18	.00	<.10	
				76-02-24	51	6.8	3.0	12	.02	<.10	
				76-05-26	47	6.7	3.4	17	<.01	<.01	
				76-09-19	42	7.1	1.9	15	<.01	.24	
				77-01-11	48	6.8	4.5	18	<.01	.12	
				77-05-02	45	6.3	E13	16	<.01	.06	

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM			MAGNE- SIUM			SODIUM			POTAS- SIUM			CHLO- RIDE			SULFATE			IRON,		
			TOTAL	RECOV- ERABLE	(MG/L AS CA)	TOTAL	RECOV- ERABLE	(MG/L AS MG)	TOTAL	RECOV- ERABLE	(MG/L AS NA)	TOTAL	RECOV- ERABLE	(MG/L AS K)	TOTAL	RECOV- ERABLE	(MG/L AS SO <sub>4</sub> )	TOTAL	RECOV- ERABLE	(UG/L AS FE)	TOTAL	RECOV- ERABLE	(UG/L AS MN)
S 38916	78-06-13	12	1.8	7		3.0	3		2.0	2.0		2.0	2.0		2.0	2.0		10	10		10	10	
S 40980	72-02-02	5	--	--		--	--		3.3	3.0		0	0		3.0	3.0		0	0		<10	<10	
	73-08-11	8	.9	.2		2.7	.4		3.0	2.3		<10	<10		2.3	2.3		<10	<10		<10	<10	
	73-11-28	0	.9	.2		2.9	.4		3.0	2.0		<10	<10		2.0	2.0		<50	<50		<10	<10	
	74-04-17	4	1.0	.4		2.5	.3		6.0	4.0		<10	<10		4.0	4.0		<20	<20		<10	<10	
	74-08-10	5	1.0	.4		2.7	.3		4.0	1.8		<10	<10		1.8	1.8		<20	<20		<10	<10	
	74-11-28	6	.8	.4		2.7	.3		4.0	4.0		<10	<10		4.0	4.0		<20	<20		<10	<10	
	75-04-04	4	1.2	.3		2.0	.3		4.0	4.0		<10	<10		4.0	4.0		<50	<50		10	10	
	75-12-18	4	1.8	.5		2.9	.3		5.0	5.0		<10	<10		5.0	5.0		<10	<10		<10	<10	
	76-04-06	7	1.4	.4		2.9	.2		1.0	1.0		<10	<10		1.0	1.0		<10	<10		<10	<10	
	76-08-05	14	1.4	.4		2.7	.3		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	76-12-17	10	1.3	.5		2.8	.3		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	77-04-13	14	1.3	.4		2.4	.3		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	77-08-26	9	1.3	.5		3.0	.3		3.5	3.5		<10	<10		3.5	3.5		<10	<10		20	20	
	78-01-26	15	1.3	.4		2.9	.3		2.5	2.5		<10	<10		2.5	2.5		<10	<10		<10	<10	
	78-02-26	50	1.4	.3		2.0	.2		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	75-01-27	3	.9	.3		2.6	.2		4.5	4.5		<10	<10		4.5	4.5		<10	<10		<10	<10	
	75-11-16	6	1.2	.3		2.6	.2		2.0	2.0		<10	<10		2.0	2.0		<10	<10		<10	<10	
	76-02-17	5	1.3	.3		2.5	.2		2.5	2.5		<10	<10		2.5	2.5		<10	<10		<10	<10	
	76-05-19	9	1.5	.3		2.5	.2		2.5	2.5		<10	<10		2.5	2.5		<10	<10		<10	<10	
	76-10-12	22	1.4	.4		2.5	.2		2.0	2.0		<10	<10		2.0	2.0		<10	<10		<10	<10	
	77-06-07	11	1.4	.3		2.1	.2		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	77-11-15	8	1.2	.3		2.6	.2		3.0	3.0		<10	<10		3.0	3.0		<10	<10		<10	<10	
	78-03-22	15	2.7	.4		2.7	.2		3.5	3.5		<10	<10		3.5	3.5		<10	<10		<10	<10	
	78-07-18	13	--	--		--	--		1.4	1.4		<10	<10		1.4	1.4		<10	<10		<10	<10	
	74-11-05	16	3.8	1.0		3.1	.4		3.5	3.5		<10	<10		3.5	3.5		<10	<10		<10	<10	
	75-03-02	14	3.7	1.0		3.0	.4		3.3	3.3		<10	<10		3.3	3.3		<10	<10		<10	<10	
	75-11-09	14	4.0	1.0		3.3	.4		3.2	3.2		<10	<10		3.2	3.2		<10	<10		<10	<10	
	76-02-24	17	4.0	1.0		3.2	.4		4.0	4.0		<10	<10		4.0	4.0		<10	<10		<10	<10	
	76-05-26	18	4.1	1.0		3.4	.5		4.0	4.0		<10	<10		4.0	4.0		<10	<10		<10	<10	
	76-09-19	12	3.4	.9		3.5	.4		3.2	3.2		<10	<10		3.2	3.2		120	120		10	10	
	77-01-11	21	4.5	1.1		4.0	.4		4.0	4.0		<10	<10		4.0	4.0		210	210		20	20	
	77-05-02	16	3.7	1.0		2.9	.4		1.0	1.0		<10	<10		1.0	1.0		60	60		60	60	

Table 6.—Chemical analyses of water from public-supply wells screened in the Magothy aquifer in the northern part of the town of Brookhaven (Continued)

LOCAL IDENT- I- FIER	LAT- I- TUE	LONG- I- TUE	SEQ. NO.	DATE OF SAMPLE	PH	CARBON DIOXIDE DIS- SOLVED (MG/L AS CO <sub>2</sub> )	ALKALI- NITRATE (MG/L AS N)	NITRO- GEN, NITRATE TOTAL (MG/L AS N)	
						CACO <sub>3</sub> )			
S 46928	40 54 55	073 02 58	01	77-11-09 78-02-28	47 62	6.5 6.8	8.6 6.6	17 26	<.01 <.01
S 47310	40 54 07	073 00 11	01	73-05-04 74-07-01 74-11-01 75-03-08 75-11-17	41 41 39 41 39	6.7 6.1 6.6 6.6 6.1	4.8 E10 4.0 4.8 E18	12 8 10 12 15	-- -- <.10 <.10 <.10
				76-02-29 76-06-22 76-11-09 77-02-21 77-08-15	39 42 44 39 40	6.2 6.4 6.8 6.6 6.1	E15 8.9 3.0 5.6 E15	15 14 12 14 12	<.10 <.08 <.01 <.11 <.04
				77-12-12 78-03-29	41 39	6.3 6.3	E10 8.6	12 13	<.01 <.01
S 49606	40 53 35	072 56 29	03	75-07-07 76-08-05 77-04-13 77-06-30 77-09-26	97 94 79 75 86	7.0 7.4 7.0 6.8 6.8	5.2 1.7 5.1 6.3 8.6	33 27 32 33 34	.32 .50 .31 .01 .10
				78-03-06	85	6.5	E16	32	<.01

LOCAL IDENT- I- FIER	DATE OF SAMPLE	HARD- NESS (MG/L AS CACO <sub>3</sub> )	CALCIUM TOTAL RECOV- ERABLE (MG/L AS CA)	MAGNE- SIUM, TOTAL RECOV- ERABLE (MG/L AS MG)	SODIUM, TOTAL RECOV- ERABLE (MG/L AS NA)	CHLO- RIDE, TOTAL RECOV- ERABLE (MG/L AS K)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE)	POTAS- SIUM, TOTAL RECOV- ERABLE (MG/L AS SO <sub>4</sub> )	SULFATE DIS- SOLVED (MG/L AS CL)	IRON, TOTAL RECOV- ERABLE (UG/L AS MN)
								MANGA- NESE,	TOTAL RECOV- ERABLE (UG/L AS MN)	
S 46928	77-11-09	27	3.9	1.0	3.3	4	2.0	2.5	70	<10
	78-02-28	28	7.7	1.2	3.3	5	4.0	2.3	60	20
S 47310	73-05-04	12	--	--	--	--	5.0	1.9	90	0
	74-07-01	11	2.1	.7	3.5	4	6.0	1.9	<20	<10
	74-11-01	10	2.6	.7	3.4	4	4.0	2.2	<20	<10
	75-03-08	13	2.8	.6	3.0	4	4.5	1.4	<20	<10
	75-11-17	20	6.0	1.0	3.4	4	2.5	4.2	50	<10
	76-02-29	15	2.8	.8	3.2	4	3.0	3.2	<10	<10
	76-06-22	15	2.8	.8	2.7	4	2.5	1.7	<10	<10
	76-11-09	12	2.9	.8	3.5	3	2.5	3.1	<10	<10
	77-02-21	16	2.8	.8	3.3	4	2.5	1.7	20	<10
	77-08-15	11	2.8	.8	3.3	4	2.5	2.0	<10	<10
	77-12-12	17	2.8	.8	3.4	4	4.0	2.0	<10	<10
	78-03-29	13	3.2	.8	3.4	4	3.5	2.4	<10	<10
S 49606	75-07-07	35	8.5	2.8	5.4	7	6.0	7.2	<20	<10
	76-08-05	43	10	3.0	5.5	6	5.5	7.2	<10	<10
	77-04-13	40	7.0	2.6	4.5	8	4.0	2.3	<10	<10
	77-06-30	29	7.0	2.4	4.4	9	3.0	2.1	110	<10
	77-09-26	30	8.3	2.7	5.0	9	3.5	2.0	230	40
	78-03-06	34	7.7	2.7	4.6	1.0	4.0	2.7	<10	<10

Table 7.--Chemical analyses of water from streams in the northern part of the Town of Brookhaven

DATE (DEG C)	TEMPER- ATURE, WATER (MICRO- Mhos)	SPECI- CIFIC CON- DUCT- ANCE (PH)	ALKA- LINITY (MG/L AS UNITS)	BICAR- BONATE (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)		NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)		HARD- NESS, BICAR- BONATE (MG/L AS CACO <sub>3</sub> )		CALCIUM DIS- SOLVED (MG/L AS CA)	
					NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS, BICAR- BONATE (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS, BICAR- BONATE (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS, BICAR- BONATE (MG/L AS CACO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS, BICAR- BONATE (MG/L AS CACO <sub>3</sub> )
01304051 - STONY BROOK R AT STONY BROOK NY (LAT 40 54 53 LONG 073 08 52)												
OCT 31...	1977 11.0	165	6.3	25	31	02	1.6	50	24	12		
APR 18...	1978 13.5	165	6.4	19	23	01	2.9	53	34	14		
01304060 - TRIBUTARY TO CONSCIENCE BAY AT SETAUKEET NY (LAT 40 56 49 LONG 073 07 01)												
OCT 25...	1977 13.0	150	7.2	25	31	02	2.0	48	22	12		
APR 18...	1978 14.0	165	6.4	25	30	01	1.1	58	34	16		
01304065 - TRIB TO SETAUKEET HARBOR AT E SETAUKEET NY (LAT 40 56 35 LONG 073 06 08)												
OCT 25...	1977 13.0	200	6.7	47	57	01	2.0	75	28	18		
APR 18...	1978 15.0	235	6.4	32	39	02	3.4	85	53	24		
01304070 - TRIBUTARY TO PORT JEFFERSON HARBOR NY (LAT 40 56 41 LONG 073 04 18)												
OCT 25...	1977 13.0	225	6.4	34	42	01	--	57	23	13		
APR 18...	1978 13.5	170	6.1	30	35	01	2.5	51	22	13		

MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS K)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	IRON, TOTAL RECOV- ERABLE (UG/L AS Fe)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS Mn)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS MN)
OCT , 1977 31 ..	4. 8	1.1	1. 6	15	20	.0	1.3	190	30
APR , 1978 18 ..	4. 4	1.2	1. 3	19	22	.0	1.2	240	40

01304051 - STONY BROOK R AT STONY BROOK NY (LAT 40 54 53 LONG 073 08 52)

OCT , 1977 25 ..	4. 3	1.1	2. 4	15	16	.0	8. 5	550	80
APR , 1978 18 ..	4. 5	1.5	1. 9	20	19	.1	6. 8	700	170

01304060 - TRIBUTARY TO CONSCIENCE BAY AT SETAUKEET NY (LAT 40 56 49 LONG 073 07 01)

OCT , 1977 25 ..	7. 3	1.4	3. 3	19	25	.0	1.1	580	70
APR , 1978 18 ..	6. 2	1.5	2. 6	24	24	.0	9. 9	4400	190

01304065 - TRIB TO SETAUKEET HARBOR AT E SETAUKEET NY (LAT 40 56 35 LONG 073 06 08)

OCT , 1977 25 ..	6. 0	21	2. 4	35	12	.0	1.3	3000	180
APR , 1978 18 ..	4. 6	1.4	1. 2	21	9. 9	.0	12	1500	110

01304070 - TRIBUTARY TO PORT JEFFERSON HARBOR NY (LAT 40 56 41 LONG 073 04 18)

OCT , 1977 25 ..	6. 0	21	2. 4	35	12	.0	1.3	3000	180
APR , 1978 18 ..	4. 6	1.4	1. 2	21	9. 9	.0	12	1500	110

Table 7.--Chemical analyses of water from streams in the northern part of the Town of Brookhaven (Continued)

DATE (DEG C)	TEMPER- ATURE, WATER (MICRO- MHS)	SPECI- CIFIC CON- DUCT- ANCE (UNITS)	PH	ALKALI- LINITY (MG/L AS UNITS)	BICAR- BONATE (MG/L AS HCO <sub>3</sub> )	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N)	HARD- NESS, NONCAR- BONATE SOLVED (MG/L AS CaCO <sub>3</sub> )	CALCIUM DIS- SOLVED (MG/L AS Ca)
01304075 - CRYSTAL BK AT MOUNT SINAI NY (LAT 40 56 59 LONG 073 02 34)									
APR , 1978 18...	10. 5	150	6. 1	22	27	.01	.24	.34	11
01304990 - CARMENS RIVER AT MIDDLE ISLAND NY (LAT 40 51 47 LONG 072 56 35)									
OCT , 1977 31...	10. 0	95	5. 9	11	14	.00	.06	.16	4
APR , 1978 17...	9. 0	130	5. 8	6	7	.00	1. 4	.34	28
01304995 - CARMENS RIVER NEAR YAPHANK NY (LAT 40 50 29 LONG 072 56 13)									
OCT , 1977 31...	10. 0	90	6. 6	19	23	.01	--	.27	8
APR , 1978 17...	11. 0	98	6. 0	18	22	.00	.45	.27	9
01304998 - CARMENS RIVER BELOW LOWER LAKE AT YAPHANK NY (LAT 40 50 07 LONG 072 55 01)									
OCT , 1977 31...	11. 0	105	6. 5	17	21	.00	--	.31	14
APR , 1978 17...	12. 0	100	6. 3	16	20	.01	.85	.29	13

MAGNE- SIUM, DIS- SOLVED (MG/L AS MG)	SODIUM, DIS- SOLVED (MG/L AS NA)	POTAS- SIUM, DIS- SOLVED (MG/L AS CL)	CHLO- RIDE, DIS- SOLVED (MG/L AS F)	SULFATE DIS- SOLVED (MG/L AS SO4)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	SILICA, DIS- SOLVED (MG/L AS SiO2)	IRON, TOTAL, RECOV- ERABLE (UG/L AS FE)	MANGA- NESE, TOTAL, RECOV- ERABLE (UG/L AS MN)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS MN)

01304075 - CRYSTAL BK AT MOUNT SINAI NY (LAT 40 56 59 LONG 073 02 34)

APR , 1978	3.6	15	1.1	24	12	0	8.4	570	30	86
 01304990 - CARMENS RIVER AT MIDDLE ISLAND NY (LAT 40 51 47 LONG 072 56 35)										
OCT , 1977	1.5	4.6	1.4	6.5	11	.0	9.5	570	390	45
APR , 1978	2.2	9.5	1.8	14	21	.0	7.5	190	20	76

01304995 - CARMENS RIVER NEAR YAPHANK NY (LAT 40 50 29 LONG 072 56 13)

OCT , 1977	2.6	6.0	1.1	8.3	11	.0	12	110	10	59
APR , 1978	2.4	7.1	1.3	9.5	13	.0	9.7	160	20	63
APR , 1978	2.6	7.4	1.2	9.3	14	.0	8.7	220	40	64

01304998 - CARMENS RIVER BELOW LOWER LAKE AT YAPHANK NY (LAT 40 50 07 LONG 072 55 01)

OCT , 1977	3.0	6.8	1.3	11	13	.0	7.0	180	10	60
APR , 1978	2.6	7.4	1.2	9.3	14	.0	8.7	220	40	64

Table 8.--Estimated public-supply withdrawals by Suffolk County Water Authority  
in the northern part of the Town of Brookhaven, 1971-77

[Records from New York State Department of Environmental Conservation;  
well locations are shown in plate 1.]

Well field	Well number and aquifer	Total pumpage by aquifer, in million gallons per day						
		1971	1972	1973	1974	1975	1976	1977
Bailey Rd.	36711(G) 40161(G) 49606(M)	--	.003(G)	.06(G)	.15(G)	.01(G)	.15(G)	.18(G)
Beechnut Ave.	23440(G)	.04(G)	.05(G)	.13(G)	.16(G)	.18(G)	.11(G)	.15(G)
Belle Terre Rd.	22640(M) 24663(M)	.94(M)	.72(M)	.64(G)	.86(G)	.58(G)	.94(G)	.80(M)
Bicycle Path	32325(G) 32326(G) 52490(M)	.50(G)	.58(G)	.40(G)	.50(G)	.41(G)	.46(G)	.38(G)
Boyle Rd. North	16309(G)	--	--	--	--	.14(G)	.25(G)	.14(G)
Boyle Rd. South	23524(G)	--	--	--	--	.27(G)	.19(G)	.37(G)
Chestnut St.	51266(G) 55502(G)	--	--	--	--	.19(G)	.22(G)	.45(G)
College Rd.	32551(G) 32552(G) 54473(G)	1.46(G)	1.89(G)	1.78(G)	1.45(G)	1.14(G)	1.15(G)	1.33(G)
Crystal Brook Hollow Rd.	51953(G)	--	--	--	--	.35(G)	.28(G)	.40(G)
Daniel Webster Dr.	19465(M) 21632(M) 29411(M) 36166(M)	1.46(M)	1.54(M)	1.72(M)	1.52(M)	.95(M)	.62(M)	.56(M)
Dare Rd.	40331(G) 40709(G)	--	1.14(G)	1.34(G)	.53(G)	.42(G)	.65(G)	.60(G)
Eastwood Blvd.	22547(G) 35494(G)	.29(G)	.21(G)	.11(G)	.10(G)	.25(G)	.16(G)	.30(G)
Fairmount Ave.	56674(G)	--	--	--	--	--	--	.21(G)
Flint Lane	42504(G) 42505(G)	--	--	.46(G)	.43(G)	.38(G)	.50(G)	.58(G)
Harrison Ave.	27261(G)	.06(G)	.13(G)	.13(G)	.18(G)	.17(G)	.17(G)	.16(G)
Hawkins Rd.	20591(G) 38784(M) 43117(M)	.15(G)	.09(G)	.13(G)	.13(G)	.08(G)	.11(G)	.10(G)
Henry Clay Dr.	38916(M) 40980(M)	--	.008(M)	.51(M)	.64(M)	.88(G)	1.17(G)	.92(M)
Horseblock Rd.	46400(G) 53291(G)	--	--	.27(G)	1.15(G)	1.30(G)	1.42(G)	.97(G)

<sup>1</sup>(G) upper glacial aquifer.

(M) Magôthy aquifer.

Table 8.--Estimated public-supply withdrawals by Suffolk County Water Authority  
in the northern part of the Town of Brookhaven, 1971-77 (Continued)

Well field	Well number and aquifer	Total pumpage by aquifer, in million gallons per day					
		1971	1972	1973	1974	1975	1977
Jayne Blvd.	14792(M) 17689(M) 23255(M) 46928(M)	1.38(M)	.94(M)	.92(M)	1.09(M)	.84(M)	.92(M)
Kayron Drive	16124(G)	.22(G)	.13(G)	.12(G)	.02(G)	--	--
Morris Ave.	28819(G) 29492(G)	.62(G)	.39(G)	.31(G)	.43(G)	.75(G)	.62(G)
Mud Rd.	15962(G) 23185(M)	.05(G) .12(M)	.11(G) .13(M)	.06(G) .07(M)	.12(G) .24(M)	.07(G) .08(M)	.09(G) .10(M)
North Country Rd.	30088(G) 38194(G)	.47(G)	.69(G)	.65(G)	.74(G)	.79(G)	.96(G)
Oak St.	40837(G) 40838(G)	--	--	.66(G)	1.06(G)	.91(G)	1.18(G)
Oxhead Rd.	27784 (G&M) 29732(M) 33500(M) 35466(M)	1.35(M)	1.19(M)	.89(M)	.74(M)	.80(M)	1.00(M)
Pleasant Ave.	39347(G) 42760(G)	--	.40(G)	.60(G)	.75(G)	1.05(G)	1.20(G)
Race Ave.	17037(G) 19408(G)	.39(G)	.37(G)	.40(G)	.48(G)	.41(G)	.20(G)
Samuel St.	13620(G) 17630(G) 37847(G)	.88(G)	.68(G)	.87(G)	1.06(G)	1.30(G)	1.42(G)
Sherry Dr.	34300(M) 34301(M) 57979(M)	1.04(M)	.87(M)	1.01(M)	1.03(M)	1.04(M)	1.05(M)
Stem Lane	37301(M) 36459(M)	1.11(M)	.98(M)	.54(M)	.43(M)	.42(M)	.49(M)
Viking Place	47219(G) 47310(M) 52451(G)	--	--	--	.38(G) .16(M)	.66(G) .36(M)	.76(G) .37(M)
West Broadway	4372 (G) 8439 (G)	.19(G)	.23(G)	.23(G)	.16(G)	.14(G)	.17(G)
Wheat Path	32180(M) 34007(M)	.56(M)	.49(M)	.55(M)	.52(M)	.34(M)	.42(M)
TOTAL		5.32(G) 8.09(M)	7.09(G) 7.01(M)	9.35(G) 6.44(M)	10.84(G) 7.10(M)	12.83(G) 5.68(M)	14.53(G) 5.90(M)
							13.96(G) 8.07(M)

<sup>1</sup>(G) upper glacial aquifer

(M) Magothy aquifer

Table 9.--Estimated public-supply withdrawals by private water companies in the northern part of the Town of Brookhaven, 1971-77

[Records from New York State Department of Environmental Conservation]

Water Company	Total pumpage from the upper glacial aquifer, in million gallons per day						1977
	1971	1972	1973	1974	1975	1976	
Bevon Water Company	.085	.085e <sup>1/</sup>	.085	.109	.108	.096	.111
Cedar Water Supply Company	.004	.004	.004	.004	.004	.004	.004
Culross Corporation	.010	.011	.010	.008	.008	.009	.012
Eastern Suffolk Water Corporation	.137	.200	.280	.398	.381	.298	.547
Great Beach Water Corporation	.240	.260	.320e	.385	.601	.332	.335
Scott's Beach Incorporation	.040	.034	.036	.026	.029	.025	.026
Soundview Association	.002	.002	.003	.015	.015	.008	.015
Terraces on the Sound	.020	.018	.018	.019	.019	.020	.025
Ronkonkoma Water Company, Incorporation	.049	.049	.049	All service has been taken over by the Suffolk County Water Authority from 1974.			
Sunhill Water Company	.326	.327	.328				
TOTAL	.913	.990	1.133	.964	1.165	.792	1.075

e<sup>1/</sup> estimated value